MAYOR: DAN GELBER

KRISTEN ROSEN GONZALEZ COMMISSIONERS:

MARK SAMUELIAN

ALEX J. FERNANDEZ STEVEN MEINER RICKY ARRIOLA

DAVID RICHARDSON

CITY MANAGER: ALINA T. HUDAK

RAFAEL A. PAZ CITY ATTORNEY:

DEPUTY CITY MANAGER: ERIC T. CARPENTER, P.E.

LESTER SOLA ASSISTANT CITY MANAGER:

DIRECTOR OF C.I.P. OFFICE: DAVID MARTINEZ, P.E.

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	I .

VERTICAL AND HORIZONTAL ACCURACY STATEMENT

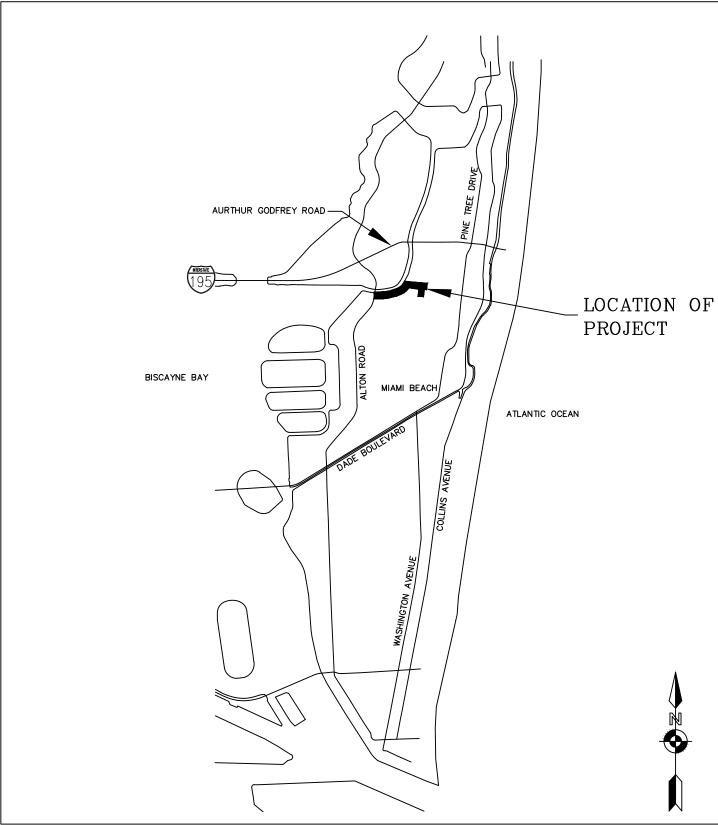
THE ACCURACY OBTAINED FOR ALL HORIZONTAL CONTROL MEASUREMENTS AND OFFICE CALCULATIONS OF CLOSED GEOMETRIC FIGURES, MEETS OR EXCEEDS THE STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS AS CONTAINED IN CHAPTER 5J-17.051, FAC THE HORIZONTAL ACCURACY OBTAINED ON THIS TOPOGRAPHIC SURVEY WAS FOUND TO EXCEED 1 FOOT IN 7,500 FEET, A COMMONLY VALUE ACCEPTED IN THE CONSTRUCTION AND

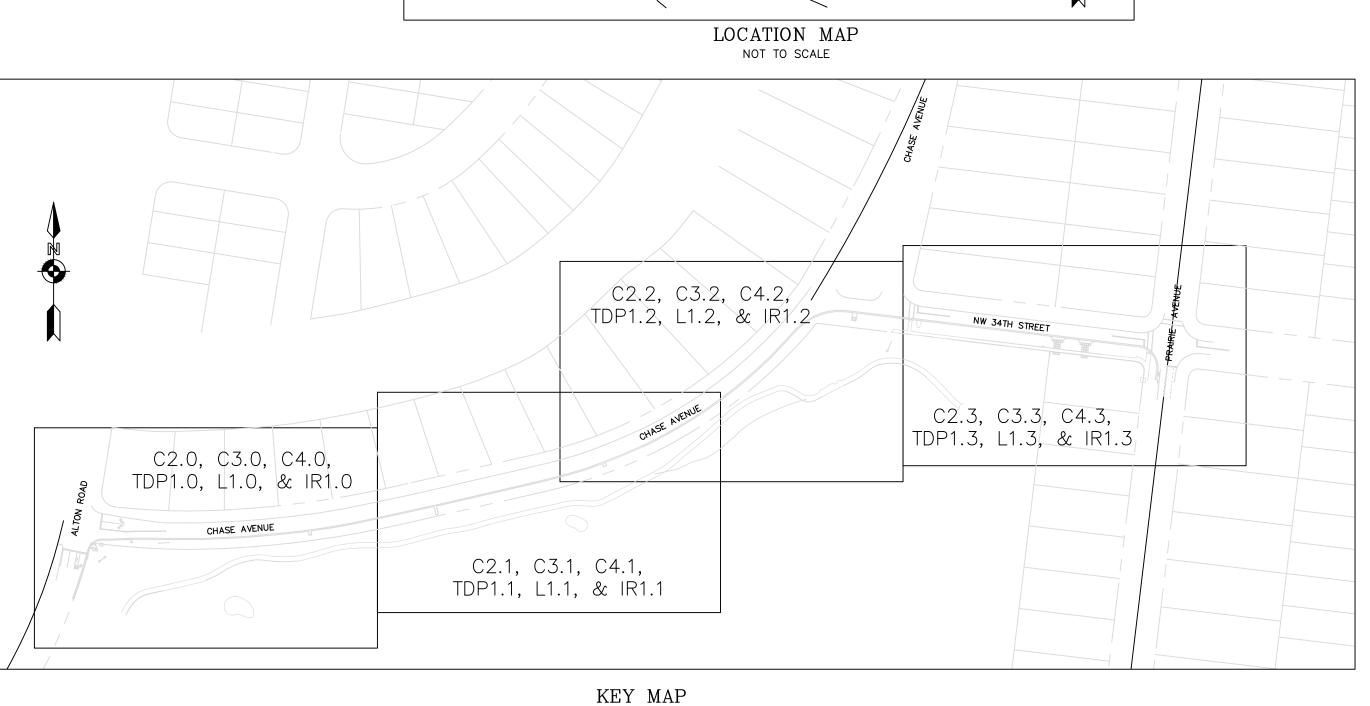
THE ELEVATIONS AS SHOWN ARE BASED ON A CLOSED LEVEL BETWEEN THE TWO ELEVATION BENCHMARKS NOTED HEREON, AND MEETS OR EXCEEDS THE STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS AS CONTAINED IN CHAPTER 5J-17.051, FAC. THE VERTICAL ACCURACY OBTAINED ON THIS TOPOGRAPHIC SURVEY EXCEEDS THE CALCULATED VALUE OF A CLOSURE IN FEET OF PLUS OR MINUS 0.05 FEET TIMES THE SQUARE ROOT OF THE DISTANCE IN MILES A COMMONLY VALUE ACCEPTED IN THE CONSTRUCTION AND SURVEYING

MIAMIBEACH

CITY OF MIAMI BEACH, FLORIDA CHASE AVENUE AND 34TH STREET PATH

> FINAL SUBMITTAL DRB22-0801









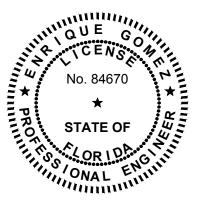
TALLAHASSEE JACKSONVILLE PENSACOLA ____ PANAMA CITY ST AUGUSTINE WEST PALM BEACH T. LAUDERDALE LOCATION OF PROJECT MIAMI BEACH DESCRIPTION: A PORTION OF CHASE AVENUE RIGHT-OF-WAY OF MID-GOLF EXTENSION, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 40, PAGE 69, PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA

BENCHMARK	DESCRIPTION	ELEVATION
D-131	PK NAIL AND ALUMINUM WASHER ON CONCRETE DECK OF CATCH BASIN, 56 FEET NORTH OF CENTERLINE OF CHASE AVENUE, 3 FEET WEST OF WEST EDGE OF PAVEMENT ON ALTON ROAD, AND 17 FEET NORTHWEST OF A STORM SEWER MANHOLE	7.18'

FINAL SUBMITTAL DRB 22-0801 03/4/2022

Neighborhood





APPROVED : CASTO MIGUEL JUNCAL, PLA FLA. REGISTRATION NO. <u>LA6667184</u> DATE : <u>3/4/2022</u>

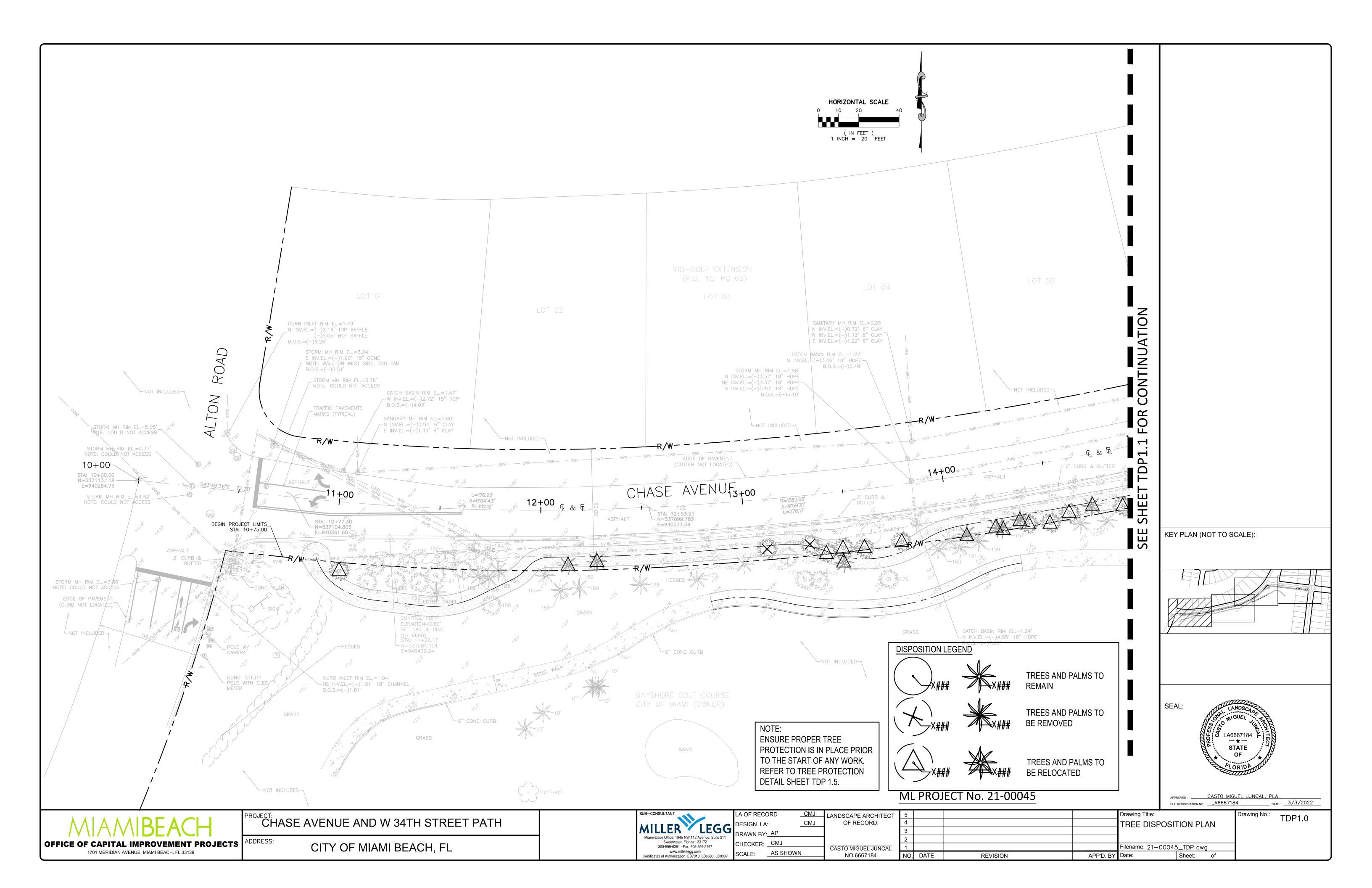
ENRIQUE GOMEZ, P.E. _ DATE : <u>3/4/2022</u> FLA. REGISTRATION NO. 84670

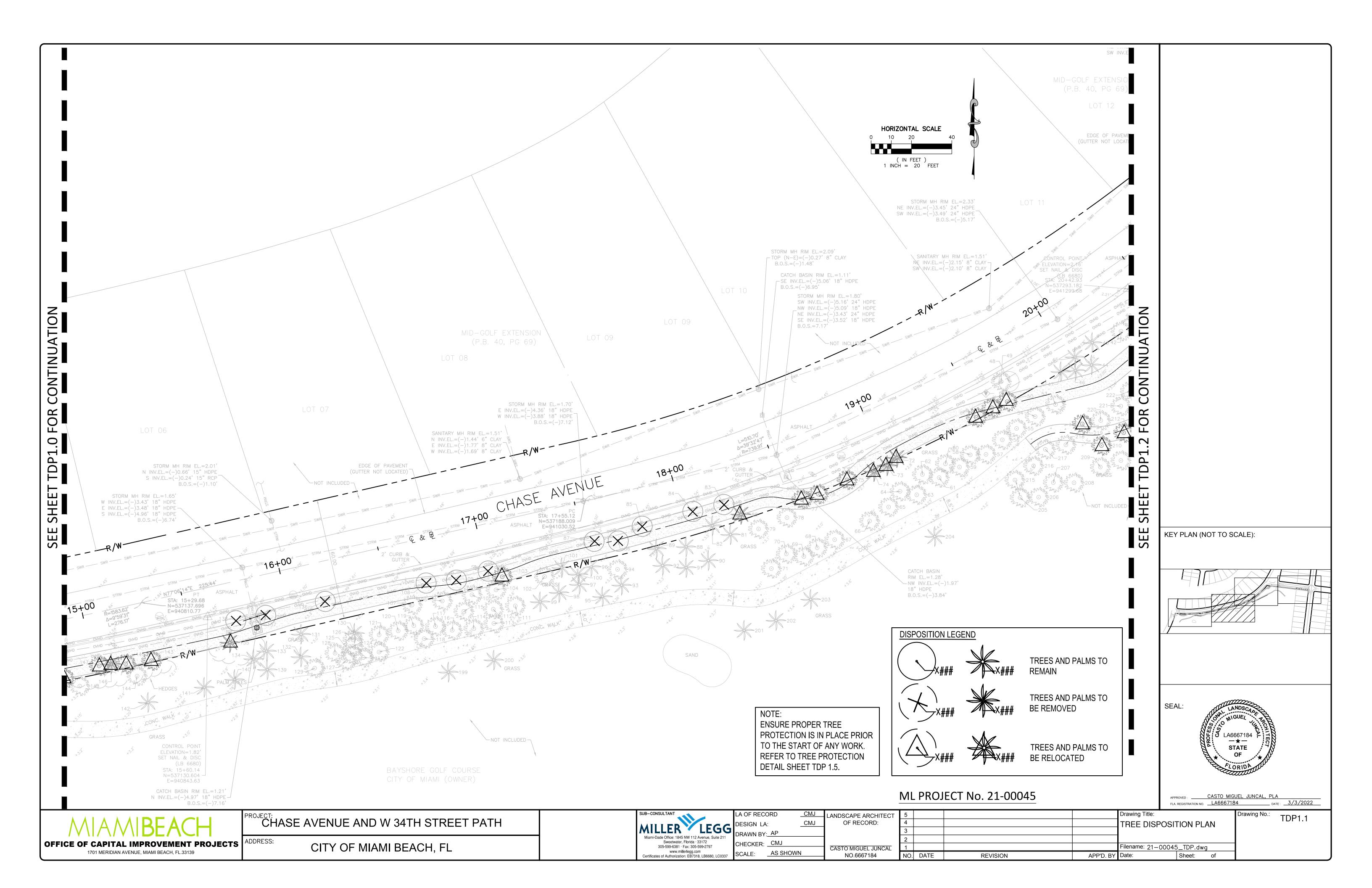
ML PROJECT No. 21-00045

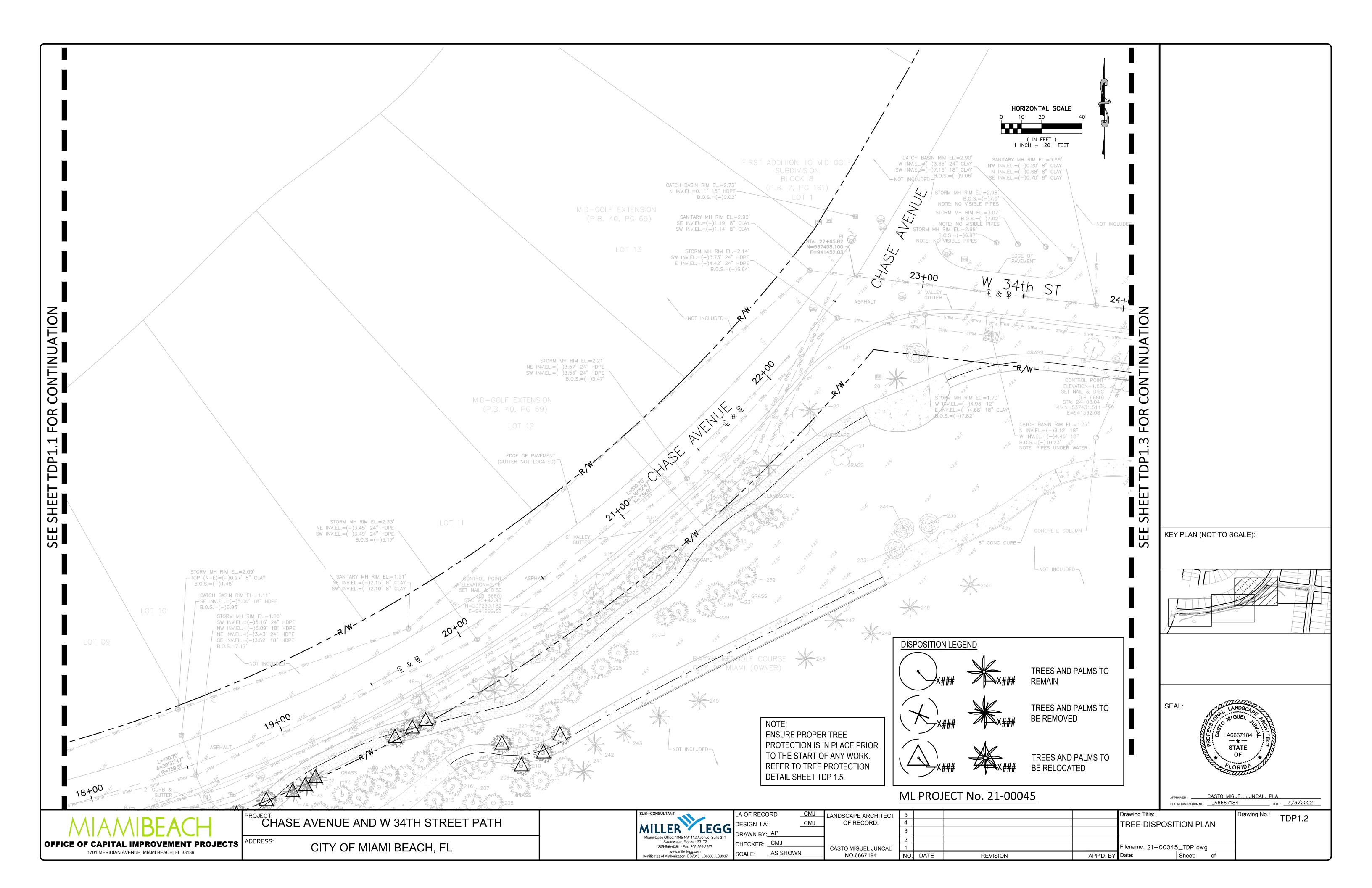
South Florida Office: 5747 N. Andrews Way Ft. Lauderdale, Florida · 33309-2364 954-436-7000 · Fax: 954-436-8664 www.millerlegg.com Certificates of Authorization: EB7318, LB6680, LC0337

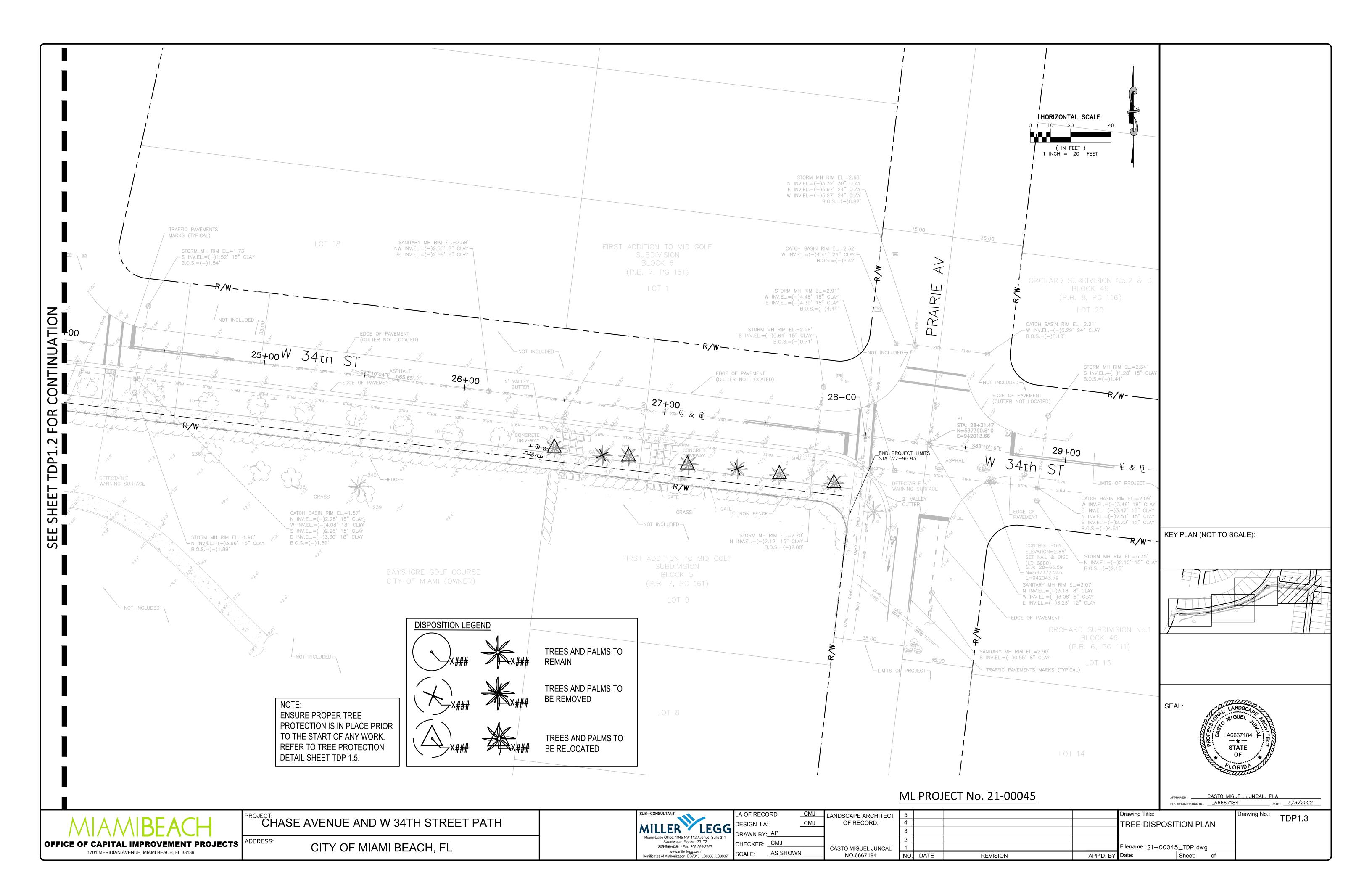
A PORTION OF W 34th STREET OF FIRST ADDITION TO MID-GOLF SUBDIVISION, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 7, PAGE 161, PUBLIC RECORDS OF MIAMI-DADE COUNTY, FL.

A PORTION OF NON-PLATTED AREA, INSIDE THE MIAMI BEACH GOLF COURSE (FORMER BAYSHORE GOLF COURSE) ADJACENT TO CHASE AVENUE AND W 34th STREET.

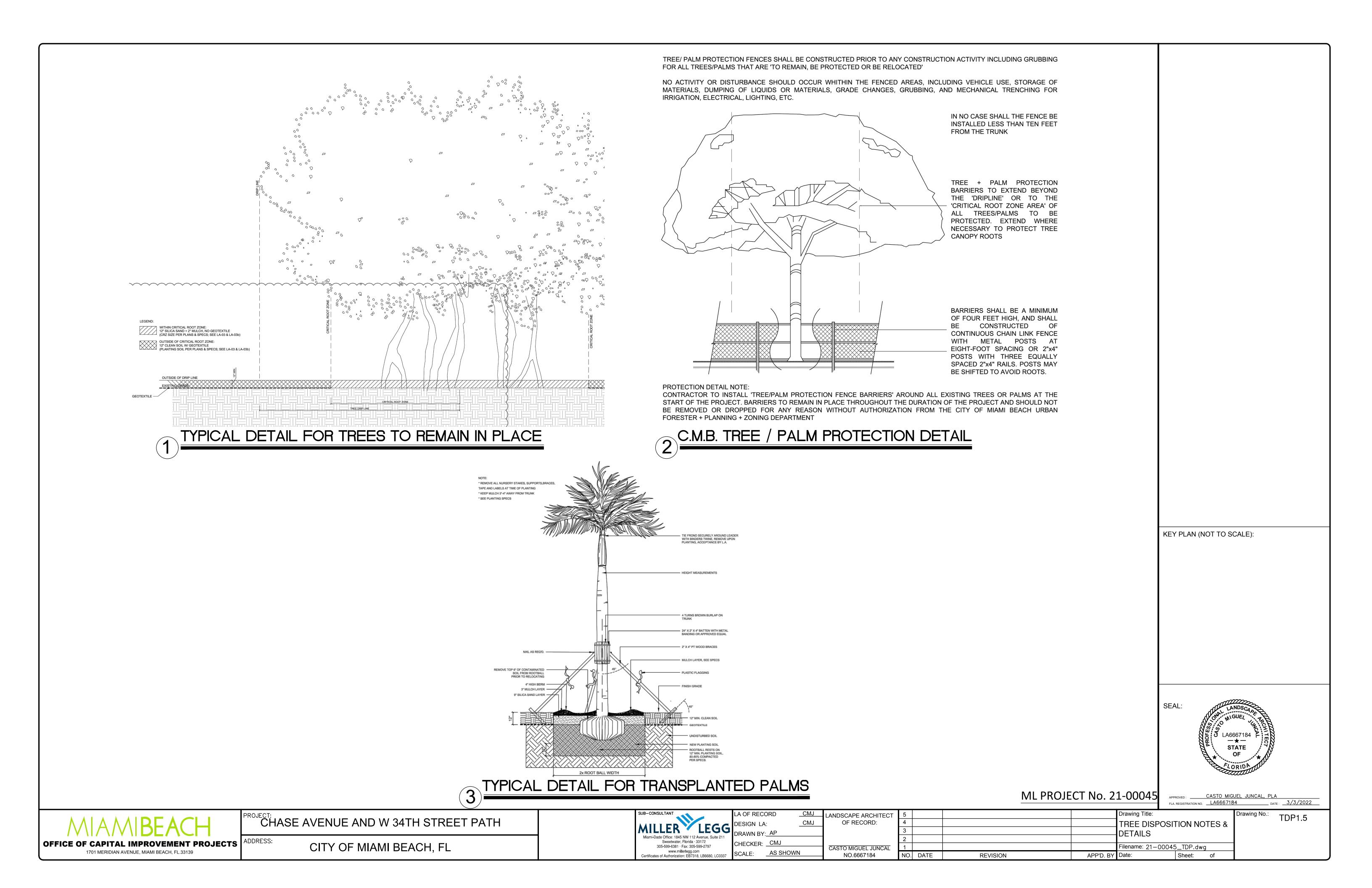


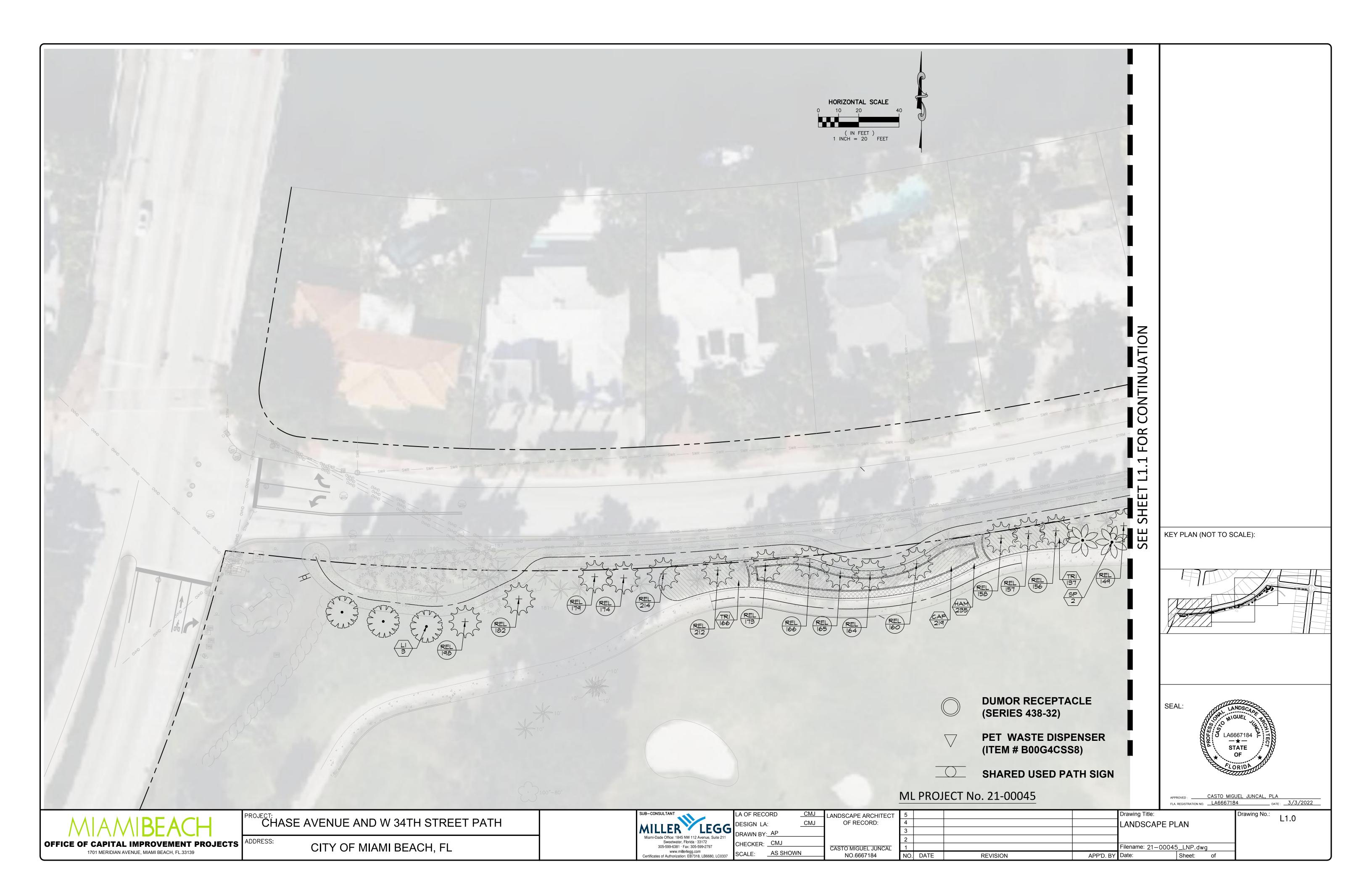


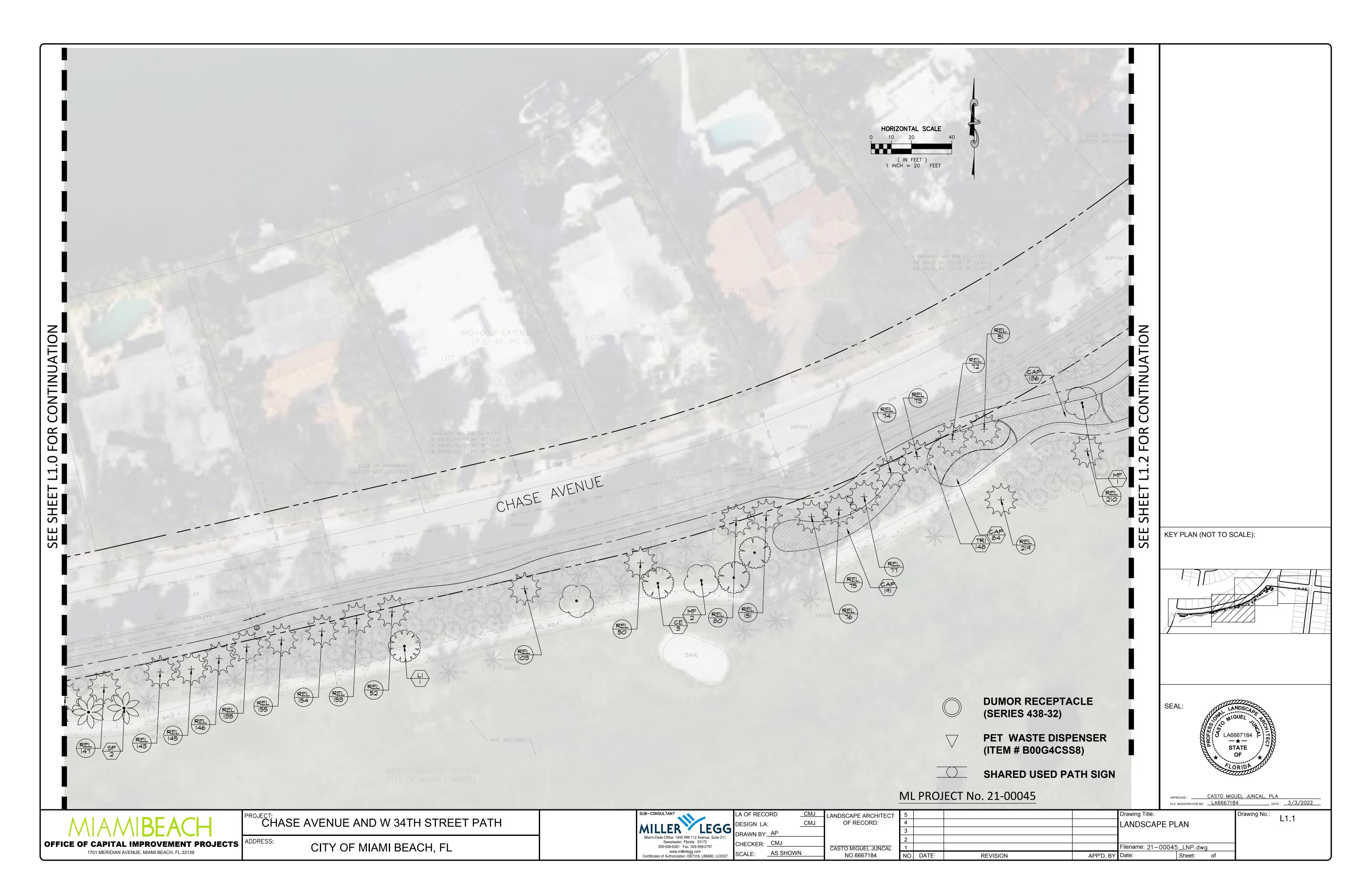


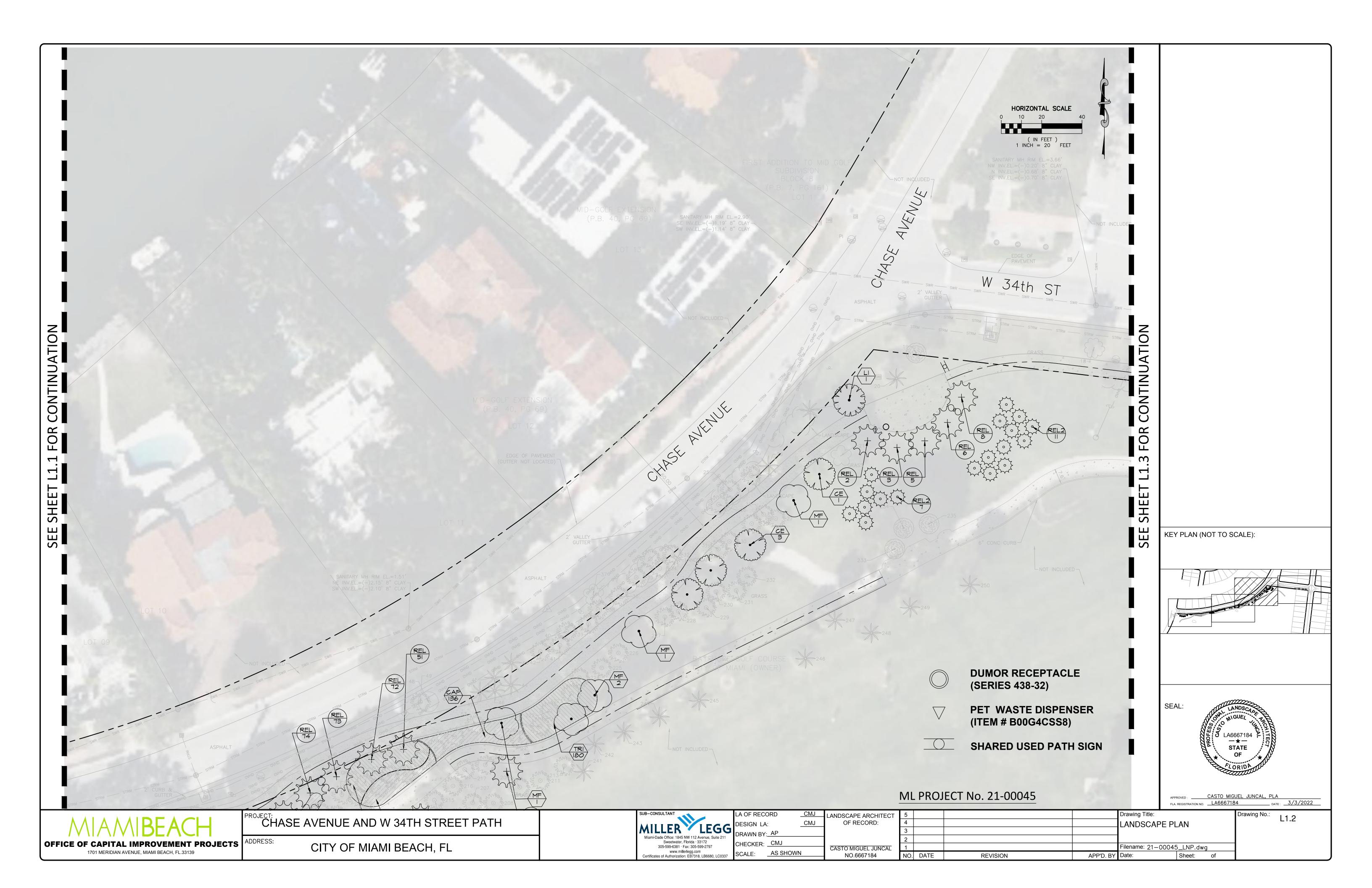


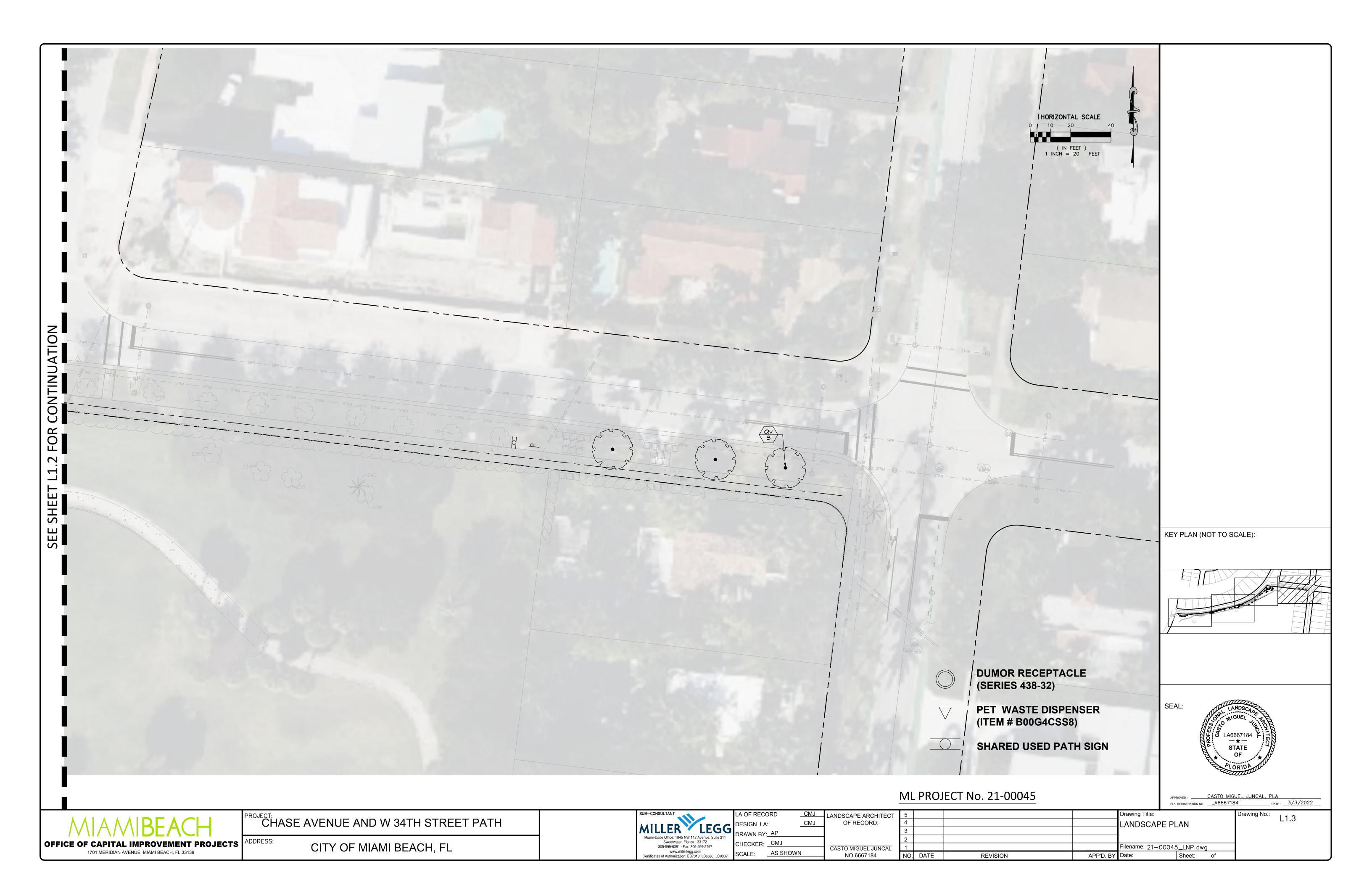
TREE DISPOSITION CHART	TREE DISPOSITION CHART
Tree Tag # Common Name Botanical Name DBH Height Spread Northing Easting Condition Disposition Notes 1 Coconut Palm Cocos nucifera 10 36 12 537359.058 941987.864 Poor (21% to 40%) Remain Adj Power Lines, Bent Trunk	Tree Tag # Common Name Botanical Name DBH Height Spread Northing Easting Condition Disposition Notes 129 Cabbage Palm Sabal palmetto 9 30 14 537105.874 940894.613 Fair (41% to 60%) Remain Bent Trunk 130 Paurotis Palm Accelorrhaphe wrightii 14 14 20 537125.471 940920.686 Fair (41% to 60%) Remain Bent Trunk
2 Coconut Palm Cocos nucifera 9 30 16 537371.925 941969.578 Fair (41% to 60%) Relocate Yellow Fronds,Bent Trunk 3 Coconut Palm Cocos nucifera 10 32 16 537375.097 941941.453 Fair (41% to 60%) Relocate Yellow Fronds,Bent Trunk 4 Coconut Palm Cocos nucifera 11 30 14 537380.456 941921.55 Poor (21% to 40%) Remove Yellow Fronds,Bent Trunk,Trunk Damage	131 Paurotis Palm Accelorrhaphe wrightii 20 20 24 28 53712.426 940887.187 Fair (41% to 60%) Remain Bent Trunk, Yellow Fronds 132 Paurotis Palm Accelorrhaphe wrightii 20 24 28 537112.426 940887.187 Fair (41% to 60%) Remain Bent Trunk, Yellow Fronds
5 Coconut Palm Cocos nucifera 13 34 16 537380.027 941895.779 Fair (41% to 60%) Relocate Bent Trunk 6 Coconut Palm Cocos nucifera 10 32 18 537383.495 941865.769 Fair (41% to 60%) Relocate Bent Trunk, Yellow Fronds	133 Paurotis Palm Accelorrhaphe wrightii 18 24 26 537121.206 940872.563 Fair (41% to 60%) Remain Bent Trunk,Yellow Fronds 134 Paurotis Palm Accelorrhaphe wrightii 10 18 12 537115.562 940866.271 Very Poor (6% to 20%) Remain Most Fronds Missing,Yellow Fronds 435 Powertic Palm Accelorrhaphe wrightii 24 24 25 537123.2523 2400057.202 Palmotis Palm Palmotis Palmot
7 Coconut Palm Cocos nucifera 6 26 18 537392.682 941855.955 Poor (21% to 40%) Remove Tapered Trunk, Bent Trunk, Trunk Damage 8 Coconut Palm Cocos nucifera 7 26 18 537388.16 941828.202 Fair (41% to 60%) Relocate Bent Trunk 9 Live Oak Quercus virginiana 10 26 30 537397.224 941801.644 Fair (41% to 60%) Remain Co-Dominant Leaders, Bent Leader	135 Paurotis Palm Acoelorrhaphe wrightii 24 24 26 537122.583 940855.202 Fair (41% to 60%) Relocate Some Fronds Missing, Yellow Fronds 136 Silver Buttonwood Conocarpus erectus 10 24 18 537141.407 940902.924 Poor (21% to 40%) Remove Leaning - Major, Limb Damage - Minor, Adj Power Lines 137 Silver Buttonwood Conocarpus erectus 8 20 16 537132.878 940874.236 Poor (21% to 40%) Remove Leaning - Major, Co-Dominant Leaders, Adj Power Lines
10 Live Oak Quercus virginiana 12 36 32 537395.639 941778.366 Good (61% to 80%) Remain Limb Damage - Minor, Slight Lean 11 Live Oak Quercus virginiana 11 28 30 537399.619 941755.093 Fair (41% to 60%) Remain Co-Dominant Leaders, Slight Lean, Limb Damage - Minor	138 Silver Buttonwood Conocarpus erectus 12 26 20 537130.207 940859.708 Poor (21% to 40%) Remove Leaning - Major, Co-Dominant Leaders, Adj Power Lines 139 Coconut Palm Cocos nucifera 10 26 20 537107.212 940873.506 Fair (41% to 60%) Remain Bent Trunk, Yellow Fronds
12 Live Oak Quercus virginiana 10 30 32 537405.89 941726.48 Fair (41% to 60%) Remain Bent Leader, Slight Lean, Limb Damage - Minor 13 Live Oak Quercus virginiana 11 32 30 537406.143 941704.412 Fair (41% to 60%) Remain Slight Lean, Limb Damage - Minor, Bent Leader	140 Coconut Palm Cocos nucifera 10 24 20 537103.649 940858.435 Fair (41% to 60%) Remain Bent Trunk, Yellow Fronds 141 Coconut Palm Cocos nucifera 10 18 16 537097.89 940843.617 Poor (21% to 40%) Remain Some Fronds Missing, Bent Trunk, Yellow Fronds 142 Coconut Palm Cocos nucifera 8 18 20 537090.494 940816.151 Fair (41% to 60%) Remain Bent Trunk, Some Fronds Missing, Yellow Fronds
14 Live Oak Quercus virginiana 9 32 24 537409.841 941680.939 Poor (21% to 40%) Remain Limb Damage - Major, Lopsided, Apical Dieback 15 Live Oak Quercus virginiana 11 34 30 537413.111 941655.083 Good (61% to 80%) Remain Slight Lean, Limb Damage - Minor 16 Live Oak Quercus virginiana 9 26 28 537415.909 941629.453 Fair (41% to 60%) Remain Leaning - Minor, Limb Damage - Minor	142 Coconut Palm Cocos nucifera 8 18 20 537090.494 940816.151 Fair (41% to 60%) Remain Bent Trunk, Some Fronds Missing, Yellow Fronds 143 Cabbage Palm Sabal palmetto 16 24 14 537111.709 940820.199 Good (61% to 80%) Relocate Tapered Trunk 144 Cabbage Palm Sabal palmetto 15 20 14 537108.056 940809.952 Good (61% to 80%) Remain Tapered Trunk
17 Live Oak Quercus virginiana 10 32 26 537416.968 941598.065 Fair (41% to 60%) Remain Leaning - Minor, Limb Damage - Minor 18 Live Oak Quercus virginiana 9 28 24 537422.409 941569.248 Good (61% to 80%) Remain Slight Lean	145 Cabbage Palm Sabal palmetto 15 26 16 537109.445 940803.96 Good (61% to 80%) Relocate Tapered Trunk 146 Coconut Palm Cocon ucifera 10 16 20 537108.785 940796.847 Fair (41% to 60%) Relocate Bent Trunk, Yellow Fronds
19 Gumbo Limbo Bursera simaruba 13 22 30 537421.474 941482.307 Fair (41% to 60%) Remain Co-Dominant Leaders, Slight Lean, Limb Damage - Minor 20 Chinese Fan Palm Livistona chinensis 13 5 12 537407.632 941475.899 Good (61% to 80%) Remain Remain 21 Java Plum Syzygium cumini 19 38 34 537375.456 941449.48 Fair (41% to 60%) Remain Leaning - Major, Leaning - Major, Partially Uprooted	147 Cabbage Palm Sabal palmetto 13 24 14 537106.381 940789.904 Fair (41% to 60%) Relocate Adj Power Lines, Bent Trunk 148 Cabbage Palm Sabal palmetto 14 22 14 537097.702 940779.839 Fair (41% to 60%) Remain Bent Trunk 149 Cabbage Palm Sabal palmetto 15 24 16 537100.567 940773.125 Good (61% to 80%) Relocate Bent Trunk
22 Washingtonia Palm Washingtonia robusta 12 36 1 537394.543 941431.868 Dead (0% to 5%) Remain 23 Washingtonia Palm Washingtonia robusta 21 30 14 537363.636 941414.639 Fair (41% to 60%) Remain Adj Power Lines, Yellow Fronds	150 Thatch Palm Thrinax radiata 4 14 10 537095.657 940763.879 Good (61% to 80%) Remain Bent Trunk 151 Thatch Palm Thrinax radiata 4 14 10 537101.83 940758.42 Good (61% to 80%) Relocate Bent Trunk
24 Cabbage Palm Sabal palmetto 12 16 16 537358.628 941402.918 Good (61% to 80%) Remain Leaning 25 Cabbage Palm Sabal palmetto 11 14 16 537354.491 941390.153 Good (61% to 80%) Remain Trunk Damage	152 Thatch Palm Thrinax radiata 4 14 10 537095.666 940749.864 Good (61% to 80%) Remain Bent Trunk 153 Cabbage Palm Sabal palmetto 12 16 18 537097.347 940748.252 Good (61% to 80%) Relocate 154 Cabbage Palm Sabal palmetto 12 16 18 537093.127 940736.859 Good (61% to 80%) Relocate
26 Cabbage Palm Sabal palmetto 10 16 16 537346.361 941385.879 Good (61% to 80%) Remain Trunk Damage 27 Cabbage Palm Sabal palmetto 14 26 18 537342.798 941415.768 Good (61% to 80%) Remain Leaning 28 Cabbage Palm Sabal palmetto 14 20 16 537341.48 941409.315 Fair (41% to 60%) Remain Bent Trunk, Tapered Trunk	154 Cabbage Palm Sabal palmetto 12 16 18 537/093.127 940736.639 Cool (17/10 Co/l) Relocate 155 Cabbage Palm Sabal palmetto 12 16 18 537/091.665 940725.355 Good (61/10 co/l) Relocate 156 Thatch Palm Thrinax radiata 4 16 10 537/093.558 940721.632 Good (61/10 co/l) Relocate
29 Cabbage Palm Sabal palmetto 13 22 16 537335.491 941401.03 Good (61% to 80%) Remain Bent Trunk 30 Cabbage Palm Sabal palmetto 15 24 18 537329.702 941389.336 Good (61% to 80%) Remain Bent Trunk	157 Thatch Palm Thrinax radiata 4 14 10 537089.36 940712.747 Good (61% to 80%) Relocate Yellow Fronds 158 Thatch Palm Thrinax radiata 4 16 10 537089.771 940710.258 Good (61% to 80%) Relocate Yellow Fronds 159 Thatch Palm Thrinax radiata 4 16 10 537089.771 940710.258 Good (61% to 80%) Relocate Yellow Fronds
31 Cabbage Palm Sabal palmetto 13 24 18 537330.445 941382.167 Good (61% to 80%) Remain Bent Trunk	159 Thatch Palm Thrinax radiata 4 15 10 537085.849 940702.558 Good (61% to 80%) Remain Yellow Fronds 160 Thatch Palm Thrinax radiata 4 16 10 537085.898 940696.04 Good (61% to 80%) Relocate Yellow Fronds 161 Thatch Palm Thrinax radiata 4 17 10 537082.315 940692.487 Good (61% to 80%) Remain Bent Trunk
34 Cabbage Palm Sabal palmetto 13 22 16 537314.071 941354.635 Fair (41% to 60%) Remain Bent Trunk, Tapered Trunk 35 Cabbage Palm Sabal palmetto 15 28 16 537311.772 941342.382 Good (61% to 80%) Remain Yellow Fronds	162 Thatch Palm Thrinax radiata 4 18 10 537084.745 940686.273 Good (61% to 80%) Remain Bent Trunk 163 Thatch Palm Thrinax radiata 4 18 10 537081.325 940682 Good (61% to 80%) Remain Bent Trunk
36 Cabbage Palm Sabal palmetto 13 22 16 537301.849 941335.814 Good (61% to 80%) Remain Tapered Trunk, Bent Trunk 37 Carrotwood Cupaniopsis anacardioides 6 18 16 537300.421 941322.501 Poor (21% to 40%) Remain Co-Dominant Leaders, Bent Leader 38 Cabbage Palm Sabal palmetto 15 26 16 537294.806 941325.07 Fair (41% to 60%) Remain Adj Power Lines, Leaning	164 Cabbage Palm Sabal palmetto 13 18 14 537085.032 940663.1 God (61% to 80%) Relocate Bent Trunk 165 Cabbage Palm Sabal palmetto 14 24 14 537080.543 940646.625 Fair (41% to 60%) Relocate Leaning,Bent Trunk 166 Cabbage Palm Sabal palmetto 16 28 14 537079.961 940637.905 Fair (41% to 60%) Relocate Bent Trunk
38 Cabbage Palm Sabal palmetto 15 26 16 537294.806 941325.07 Fair (41% to 60%) Remain Adj Power Lines, Learning 39 Cabbage Palm Sabal palmetto 15 26 16 537286.565 941321.646 Good (61% to 80%) Remain Tapered Trunk 40 Cabbage Palm Sabal palmetto 14 26 18 537284.342 941310.164 Good (61% to 80%) Remain Tapered Trunk	167 Silver Buttonwood Conocarpus erectus 8 20 20 537086.584 940647.719 Fair (41% to 60%) Remain Bent Leader, Limb Damage - Minor 168 Cabbage Palm Sabal palmetto 17 30 14 537088.225 940618.563 Poor (21% to 40%) Remove Adj Power Lines, Bent Trunk
41 Cabbage Palm Sabal palmetto 14 28 18 537275.551 941308.054 Good (61% to 80%) Remain Tapered Trunk 42 Cabbage Palm Sabal palmetto 15 30 18 537273.108 941295.183 Good (61% to 80%) Remain Tapered Trunk 43 Tapered Trunk 44 Cabbage Palm Sabal palmetto 15 30 18 537273.108 941295.183 Good (61% to 80%) Remain Tapered Trunk 45 Cabbage Palm Sabal palmetto 15 30 18 537273.108 941295.183 Good (61% to 80%) Remain Tapered Trunk	169 Cabbage Palm Sabal palmetto 14 26 16 537081.925 940607.059 God (61% to 80%) Remain 170 Cabbage Palm Sabal palmetto 15 28 14 537081.895 940597.586 Poor (21% to 40%) Remove Adj Power Lines,Bent Trunk 171 Cabbage Palm Sabal palmetto 12 16 16 537063.932 940614.953 Good (61% to 80%) Remain Leaning
43 Thatch Palm Thrinax radiata 4 20 12 537266.517 941282.97 Good (61% to 80%) Remain Bent Trunk 44 Thatch Palm Thrinax radiata 5 16 12 537257.201 941280.869 Good (61% to 80%) Remain Bent Trunk 45 Thatch Palm Thrinax radiata 4 18 12 537261.837 941273.308 Good (61% to 80%) Remain Yellow Fronds	171 Cabbage Palm Sabal palmetto 12 16 16 537063.932 940614.953 Good (o1% to 80%) Remain Leaning 172 Cabbage Palm Sabal palmetto 16 22 16 537063.541 940621.901 Fair (41% to 60%) Remain Trunk Damage,Bent Trunk 173 Cabbage Palm Sabal palmetto 14 28 16 537077.221 940625.656 Fair (41% to 60%) Relocate Bent Trunk, Tapered Trunk
46 Thatch Palm Thrinax radiata 4 20 12 537253.983 941272.969 Good (61% to 80%) Remain Bent Trunk 47 Thatch Palm Thrinax radiata 5 20 12 537252.891 941268.368 Good (61% to 80%) Remain Yellow Fronds	174 Paurotis Palm Accelorrhaphe wrightii 20 22 20 537076.01 940631.033 Fair (41% to 60%) Relocate Some Fronds Missing, Bent Trunk 175 Cabbage Palm Sabal palmetto 14 20 16 537064.117 940656.486 Good (61% to 80%) Remain
48 Silver Buttonwood Conocarpus erectus 8 20 20 537244.844 941234.562 Poor (21% to 40%) Remain Bent Leader, Limb Damage - Major, Trunk Damage - Major and Damage - Ma	176 Paurotis Palm Accelorrhaphe wrightii 22 24 30 537076.088 940586.005 Fair (41% to 60%) Remain Some Fronds Missing, Bent Trunk, Yellow Fronds 177 Paurotis Palm Accelorrhaphe wrightii 8 16 12 537066.886 940562.125 Dead (0% to 5%) Remain Some Fronds Missing, Bent Trunk, Yellow Fronds 178 Paurotis Palm Accelorrhaphe wrightii 30 24 30 537066.234 940533.949 Fair (41% to 60%) Remain Some Fronds Missing, Bent Trunk, Yellow Fronds
50 Cabbage Palm Sabal palmetto 14 24 16 537240.525 941236.767 Fair (41% to 60%) Relocate bent frunk, rapered frunk 51 Cabbage Palm Sabal palmetto 16 28 16 537240.745 941229.717 Fair (41% to 60%) Relocate Adj Power Lines, Bent Trunk 52 Cabbage Palm Sabal palmetto 13 28 16 537230.156 941224.451 Good (61% to 80%) Relocate Bent Trunk	179 Paurotis Palm Acoelorrhaphe wrightii 26 26 24 537072.915 940513.942 Fair (41% to 60%) Relocate Some Fronds Missing,Bent Trunk,Yellow Fronds 180 Thatch Palm Thrinax radiata 4 14 10 537061.431 940504.337 Good (61% to 80%) Remain Bent Trunk,Yellow Fronds
53 Cabbage Palm Sabal palmetto 15 20 16 537239.058 941264.346 Good (61% to 80%) Remain Bent Trunk 54 Cabbage Palm Sabal palmetto 13 22 18 537237.312 941256.091 Good (61% to 80%) Remain Tapered Trunk	181 Thatch Palm Thrinax radiata 5 10 10 537062.494 940495.308 Good (61% to 80%) Remain Bent Trunk, Yellow Fronds 182 Montgomery Palm Veitchia montgomeryana 3 12 12 537073.452 940496.65 Good (61% to 80%) Relocate 183 Thatch Palm Thrinax radiata 4 10 10 537069.883 940488.304 Good (61% to 80%) Remain
55 Cabbage Palm Sabal palmetto 15 26 18 537228.344 941243.74 Good (61% to 80%) Remain 56 Cabbage Palm Sabal palmetto 15 24 16 537220.82 941235.684 Good (61% to 80%) Remain Bent Trunk 57 Cabbage Palm Sabal palmetto 15 18 16 537211.16 941229.395 Good (61% to 80%) Remain Bent Trunk	184 Thatch Palm Thrinax radiata 4 8 10 537061.818 940464.413 Good (61% to 80%) Remain 185 Thatch Palm Thrinax radiata 4 8 10 537066.847 940456.857 Good (61% to 80%) Remain
58 Cabbage Palm Sabal palmetto 14 26 16 537214.269 941225.05 Good (61% to 80%) Remain Tapered Trunk 59 Cabbage Palm Sabal palmetto 14 28 16 537209.235 941214.574 Fair (41% to 60%) Remain Bent Trunk, Tapered Trunk	186 Thatch Palm Thrinax radiata 4 14 10 537067.875 940453.362 Good (61% to 80%) Remain 187 Cabbage Palm Sabal palmetto 12 20 16 537075.626 940455.078 Good (61% to 80%) Remain Bent Trunk
60 Cabbage Palm Sabal palmetto 16 24 16 537210.826 941209.871 Fair (41% to 60%) Remain Bent Trunk, Tapered Trunk 61 Cabbage Palm Sabal palmetto 15 18 16 537205.69 941205.597 Fair (41% to 60%) Remain Bent Trunk, Tapered Trunk 62 Cabbage Palm Sabal palmetto 15 26 16 537202.83 941197.124 Good (61% to 80%) Remain Bent Trunk 63 Bent Trunk, Tapered Trunk 64 Good (61% to 80%) Remain Bent Trunk	188 Cabbage Palm Sabal palmetto 12 18 16 537054.081 940459.708 Good (61% to 80%) Remain 189 Cabbage Palm Sabal palmetto 12 20 16 537070.037 940446.963 Good (61% to 80%) Remain Bent Trunk 190 Cabbage Palm Sabal palmetto 14 20 16 537075.56 940436.704 Fair (41% to 60%) Remain Adj Power Lines, Bent Trunk
63 Cabbage Palm Sabal palmetto 13 20 16 537196.229 941194.678 Fair (41% to 60%) Remain Bent Trunk 64 Cabbage Palm Sabal palmetto 15 28 16 537195.76 941187.05 Good (61% to 80%) Remain Bent Trunk	191 Cabbage Palm Sabal palmetto 13 28 16 537067.763 940432.126 Good (61% to 80%) Remain Bent Trunk 192 MacArthur Palm Ptychosperma macarthurii 2 10 12 537059.509 940432.618 Good (61% to 80%) Remain Bent Trunk
65 Cabbage Palm Sabal palmetto 13 20 16 537187.133 941180.771 Good (61% to 80%) Remain 66 Cabbage Palm Sabal palmetto 12 20 16 537181.845 941172.569 Good (61% to 80%) Remain Bent Trunk 67 Cabbage Palm Sabal palmetto 15 22 16 53715.152 941155.232 Good (61% to 80%) Remain	193 Cabbage Palm Sabal palmetto 16 20 14 537065.62 940424.852 Fair (41% to 60%) Remain Bent Trunk 194 Cabbage Palm Sabal palmetto 16 20 16 537072.72 940417.22 Good (61% to 80%) Remain 195 Cabbage Palm Sabal palmetto 14 22 16 537066.686 940410.578 Fair (41% to 60%) Remain Bent Trunk
68 Cabbage Palm Sabal palmetto 13 18 16 537169.917 941145.213 Fair (41% to 60%) Remain Some Fronds Missing, Bent Trunk 69 Cabbage Palm Sabal palmetto 15 22 16 537164.901 941138.638 Good (61% to 80%) Remain Tapered Trunk	196 Cabbage Palm Sabal palmetto 14 18 16 537073.326 940400.889 Good (61% to 80%) Remain 197 Cabbage Palm Sabal palmetto 10 20 16 537067.461 940396.145 Good (61% to 80%) Remain
70 Cabbage Palm Sabal palmetto 14 24 16 537165.535 941132.018 Good (61% to 80%) Remain Tapered Trunk 71 Cabbage Palm Sabal palmetto 13 20 16 537157.776 941124.6 Good (61% to 80%) Remain	198 Cabbage Palm Sabal palmetto 14 22 16 537070.801 940384.755 Good (61% to 80%) Relocate 199 Royal Palm Roystonea regia 15 20 18 537106.974 940966.785 Good (61% to 80%) Remain Tapered Trunk 200 Coconut Palm Cocos nucifera 10 20 18 537113.19 940986.322 Fair (41% to 60%) Remain Bent Trunk, Yellow Fronds, Some Fronds Missing
72 Thatch Palm Thrinax radiata 4 16 12 537214.681 941185.622 Good (61% to 80%) Relocate 73 Thatch Palm Thrinax radiata 4 14 12 537205.515 941180.419 Good (61% to 80%) Relocate 74 Thatch Palm Thrinax radiata 4 16 12 537205.07 941171.47 Good (61% to 80%) Relocate	201 Royal Palm Roystonea regia 15 20 18 53713.15 940980.322 Nat (420 630 7) Remain Tapered Trunk 202 Royal Palm Roystonea regia 15 20 18 537130.604 941126.357 Good (61% to 80%) Remain Tapered Trunk
75 Cabbage Palm Sabal palmetto 15 22 16 537198.595 941159.288 Fair (41% to 60%) Relocate Leaning 76 Cabbage Palm Sabal palmetto 15 24 16 537193.907 941150.196 Good (61% to 80%) Relocate	203 Royal Palm Roystonea regia 18 30 18 537142.431 941141.888 Good (61% to 80%) Remain Tapered Trunk 204 Royal Palm Roystonea regia 16 28 18 537172.314 941207.752 Good (61% to 80%) Remain Tapered Trunk 205 Cabbage Palm Sabal palmetto 12 20 16 537191.837 941245.644 Good (61% to 80%) Remain Remain Report Trunk
77 Cabbage Palm Sabal palmetto 15 20 16 537191.637 941141.671 Fair (41% to 60%) Relocate Bent Trunk 78 Cabbage Palm Sabal palmetto 14 14 16 537181.785 941131.439 Good (61% to 80%) Remain 79 Cabbage Palm Sabal palmetto 12 14 16 537180.54 941121.888 Good (61% to 80%) Remain	205 Cabbage Palm Sabal palmetto 12 20 16 537191.837 941245.644 Good (61% to 80%) Remain Bent Trunk 206 Cabbage Palm Sabal palmetto 10 22 16 537196.008 941255.124 Good (61% to 80%) Remain Tapered Trunk 207 Cabbage Palm Sabal palmetto 12 24 16 537201.846 941263.491 Good (61% to 80%) Remain Tapered Trunk
80 Thatch Palm Thrinax radiata 4 18 12 537185.174 941110.832 Good (61% to 80%) Relocate Yellow Fronds 81 Thatch Palm Thrinax radiata 4 16 12 537175.733 941104.644 Good (61% to 80%) Remain Yellow Fronds	208 Cabbage Palm Sabal palmetto 10 18 16 537201.246 941270.174 Good (61% to 80%) Remain Tapered Trunk 209 Cabbage Palm Sabal palmetto 12 20 16 537209.311 941286.159 Good (61% to 80%) Remain Tapered Trunk 210 Cabbage Palm Sabal palmetto 8 20 14 537216.102 941288.401 Good (61% to 80%) Relocate Bent Trunk KEY PLAN (NOT TO SCALE):
82 Thatch Palm Thrinax radiata 4 16 12 537177.719 941095.613 Fair (41% to 60%) Remain Yellow Fronds, Some Fronds Missing 83 Silver Buttonwood Conocarpus erectus 11 24 20 537189.828 941100.611 Poor (21% to 40%) Remove Adj Power Lines, Limb Damage - Major, Co-Dominant Leaders 84 Silver Buttonwood Conocarpus erectus 10 26 20 537183.227 941084.539 Poor (21% to 40%) Remove Adj Power Lines, Limb Damage - Major, Co-Dominant Leaders	210 Cabbage Palm Sabal palmetto 8 20 14 537216.102 941288.401 Good (61% to 80%) Relocate Bent Trunk 211 Cabbage Palm Sabal palmetto 10 22 14 537209.805 941298.46 Good (61% to 80%) Remain Bent Trunk 212 Cabbage Palm Sabal palmetto 12 20 14 537222.119 941298.084 Good (61% to 80%) Relocate Tapered Trunk
85 Silver Buttonwood Conocarpus erectus 12 26 20 537175.503 941058.993 Poor (21% to 40%) Remove Adj Power Lines, Limb Damage - Major, Co-Dominant Leaders 86 Silver Buttonwood Conocarpus erectus 10 24 18 537168.216 941047.118 Poor (21% to 40%) Remove Adj Power Lines, Limb Damage - Major, Co-Dominant Leaders	213 Cabbage Palm Sabal palmetto 10 22 14 537219.037 941306.137 Good (61% to 80%) Remain Leaning 214 Cabbage Palm Sabal palmetto 10 22 14 537233.643 941304.711 Good (61% to 80%) Relocate Leaning
87 Silver Buttonwood Conocarpus erectus 6 20 16 537168.079 941035.147 Poor (21% to 40%) Remove Adj Power Lines, Limb Damage - Major, Co-Dominant Leaders 88 MacArthur Palm Ptychosperma macarthurii 8 12 14 537166.987 941079.816 Fair (41% to 60%) Remain Bent Trunk, Tapered Trunk 89 MacArthur Palm Ptychosperma macarthurii 10 16 14 537170.343 941065.718 Fair (41% to 60%) Remain Bent Trunk, Tapered Trunk	215 Cabbage Palm Sabal palmetto 10 18 14 537200.909 941242.003 Good (61% to 80%) Remain Bent Trunk 216 Cabbage Palm Sabal palmetto 12 20 14 537208.281 941249.672 Good (61% to 80%) Remain Tapered Trunk 217 Cabbage Palm Sabal palmetto 14 28 13 537214.109 941257.702 Good (61% to 80%) Remain Tapered Trunk TREE MITIGATION NOTE:
89 MacArthur Palm Ptychosperma macarthurii 10 16 14 537170.343 941065.718 Fair (41% to 60%) Remain Bent Trunk, Tapered Trunk 90 Royal Palm Roystonea regia 15 32 18 537162.09 941090.157 Good (61% to 80%) Remain Tapered Trunk 91 Royal Palm Roystonea regia 16 30 18 537158.906 941080.689 Good (61% to 80%) Remain Tapered Trunk	218 Cabbage Palm Sabal palmetto 15 16 14 537218.56 941268.481 Good (61% to 80%) Remain Tapered Trunk 219 Cabbage Palm Sabal palmetto 15 20 14 537232.135 941276.773 Good (61% to 80%) Relocate Bent Trunk
92 Royal Palm Roystonea regia 16 34 18 537160.075 941070.011 Good (61% to 80%) Remain Tapered Trunk 93 Royal Palm Roystonea regia 16 36 18 537150.468 941050.982 Good (61% to 80%) Remain Tapered Trunk	20 Cabbage Palm Sabal palmetto 14 20 14 537236.408 941286.489 Good (61% to 80%) Remain Some Fronds Missing 21 Cabbage Palm Sabal palmetto 14 20 14 537243.03 941293.303 Good (61% to 80%) Remain Some Fronds Missing 22 Cabbage Palm Sabal palmetto 14 20 14 537248.477 941298.748 Good (61% to 80%) Remain Bent Trunk Total Trees Removed = 11
94 Cabbage Palm Sabal palmetto 15 14 16 537157.334 941048.308 Good (61% to 80%) Remain Tapered Trunk 95 Coconut Palm Cocos nucifera 13 30 20 537143.488 941037.385 Fair (41% to 60%) Remain Bent Trunk,Trunk Damage 96 Royal Palm Roystonea regia 16 34 14 537156.503 941036.083 Poor (21% to 40%) Remain Some Fronds Missing, Yellow Fronds, Tapered Trunk	222 Cabbage Palm Sabal palmetto 14 20 14 537248.477 941298.748 Good (61% to 80%) Remain Bent Trunk 223 Cabbage Palm Sabal palmetto 13 22 14 537254.888 941310.368 Good (61% to 80%) Remain 224 Cabbage Palm Sabal palmetto 14 22 14 537262.153 941315.626 Good (61% to 80%) Remain (105" DBH)
97 Royal Palm Roystonea regia 14 32 16 537149.351 941030.829 Fair (41% to 60%) Remain Yellow Fronds, Tapered Trunk 98 Royal Palm Roystonea regia 16 30 18 537145.381 941021.912 Good (61% to 80%) Remain	225 Cabbage Palm Sabal palmetto 14 22 14 537266.241 941326.809 Good (61% to 80%) Remain 226 Cabbage Palm Sabal palmetto 14 24 14 537272.044 941334.755 Good (61% to 80%) Remain Tapered Trunk
99 Royal Palm Roystonea regia 16 32 18 537140.945 941011.535 Good (61% to 80%) Remain 100 Thatch Palm Thrinax radiata 4 12 12 537153.376 941026.603 Good (61% to 80%) Remain 101 Thatch Palm Thrinax radiata 4 14 12 537157.861 941020.492 Good (61% to 80%) Remain	227 Cabbage Palm Sabal palmetto 12 20 14 537291.499 941359.824 Good (61% to 80%) Remain Tapered Trunk 228 Cabbage Palm Sabal palmetto 14 20 14 537293.455 941365.696 Good (61% to 80%) Remain Bent Trunk 229 Cabbage Palm Sabal palmetto 14 22 14 537295.774 941376.93 Good (61% to 80%) Remain Bent Trunk
101 Inatch Palm Inrinax radiata 4 14 12 53/15/.861 941020.492 Good (61% to 80%) Remain 102 Cabbage Palm Sabal palmetto 14 24 14 537153.368 941011.986 Good (61% to 80%) Remain Leaning,Bent Trunk 103 Cabbage Palm Sabal palmetto 14 22 14 537152.917 940991.121 Fair (41% to 60%) Relocate Bent Trunk,Tapered Trunk	230 Cabbage Palm Sabal palmetto 14 18 16 537307.016 941382.976 Good (61% to 80%) Remain 231 Cabbage Palm Sabal palmetto 15 20 16 537307.328 941392.349 Good (61% to 80%) Remain Bent Trunk Total Tree Mitigation = 18 trees,
104 Cabbage Palm Sabal palmetto 16 20 16 537149.579 940987.895 Good (61% to 80%) Remain 105 Cabbage Palm Sabal palmetto 14 20 16 537143.775 940977.518 Good (61% to 80%) Remain Bent Trunk 106 Cabbage Palm Sabal palmetto 14 20 16 537143.17 940963.075 Fair (41% to 60%) Remain Bent Trunk	232 Cabbage Palm Sabal palmetto 16 20 16 537311.39 941398.895 Good (61% to 80%) Remain Bent Trunk 233 Gumbo Limbo Bursera simaruba 16 30 32 537325.857 941468.554 Fair (41% to 60%) Remain Co-Dominant Leaders, Limb Damage - Minor 234 Cabbage Palm Sabal palmetto 16 20 16 537311.39 941398.895 Good (61% to 80%) Remain Co-Dominant Leaders, Limb Damage - Minor
106 Cabbage Palm Sabal palmetto 12 16 16 537143.17 940962.975 Fair (41% to 60%) Remain Trunk Damage,Bent Trunk 107 Cabbage Palm Sabal palmetto 13 22 16 537138.426 940947.716 Good (61% to 80%) Remain Bent Trunk 108 Silver Buttonwood Conocarpus erectus 10 12 16 537147.41 940951.885 Very Poor (6% to 20%) Remove Leaning - Major,Limb Damage - Major,Co-Dominant Leaders	234 Gumbo Limbo Bursera simaruba 14 28 26 537338.981 941471.989 Fair (41% to 60%) Remain Bent Leader, Limb Damage - Minor
109 Silver Buttonwood Conocarpus erectus 10 16 20 537148.864 940966.954 Very Poor (6% to 20% Remove Leaning - Major, Limb Damage - Major, Co-Dominant Leaders 110 Silver Buttonwood Conocarpus erectus 6 16 20 537153.349 940982.657 Very Poor (6% to 20% Remove Leaning - Minor, Limb Damage - Major, Co-Dominant Leaders	238 Weeping Fig Ficus benjamina 18 36 36 537375.065 941696.879 Fair (41% to 60%) Remain Limb Damage - Minor, Trunk Damage - Minor, Trunk Damage - Minor (41 DBH, 16ht.
111 Cabbage Palm Sabal palmetto 10 24 14 537141.398 940996.983 Good (61% to 80%) Remain 112 Cabbage Palm Sabal palmetto 12 24 16 537134.729 940987.008 Good (61% to 80%) Remain 113 Cabbage Palm Sabal palmetto 12 28 16 537130.745 940985.359 Good (61% to 80%) Remain Bent Trunk	239 Weeping Fig Ficus benjamina 16 30 28 537374.446 941728.401 Fair (41% to 60%) Remain Co-Dominant Leaders, Limb Damage - Minor
113 Cabbage Palm Sabal palmetto 12 28 16 53/130./45 940985.359 Good (61.% to 80%) Remain Bent Trunk 114 Cabbage Palm Sabal palmetto 13 28 16 537126.877 940974.424 Fair (41% to 60%) Remain Leaning,Bent Trunk 115 Cabbage Palm Sabal palmetto 12 22 16 537133.383 940970.607 Fair (41% to 60%) Remain Leaning,Bent Trunk	242 Royal Palm Roystonea regia 14 22 16 Good (61% to 80%) Remain Tapered Trunk 243 Royal Palm Roystonea regia 14 24 18 Good (61% to 80%) Remain Tapered Trunk
116 Cabbage Palm Sabal palmetto 12 26 14 537126.892 940965.313 Good (61% to 80%) Remain 117 Cabbage Palm Sabal palmetto 14 20 16 537128.107 940955.404 Good (61% to 80%) Remain Tapered Trunk 118 Cabbage Palm Sabal palmetto 8 20 14 537123.075 940953.381 Good (61% to 80%) Remain Tapered Trunk	244 Royal Palm Roystonea regia 14 24 18 Good (61% to 80%) Remain Tapered Trunk
118 Cabbage Palm Sabal palmetto 8 20 14 537123.075 940953.381 Good (61% to 80%) Remain Tapered Trunk 119 Cabbage Palm Sabal palmetto 10 24 16 537127.785 940947.147 Fair (41% to 60%) Remain Tapered Trunk 120 Cabbage Palm Sabal palmetto 11 28 16 537124.09 940936.839 Good (61% to 80%) Remain Remain	246 Cabbage Palm Sabal palmetto 12 16 14 Good (61% to 80%) Remain
121 Cabbage Palm Sabal palmetto 12 26 16 537123.139 940929.375 Good (61% to 80%) Remain 122 Cabbage Palm Sabal palmetto 12 26 16 537116.625 940931.02 Good (61% to 80%) Remain Bent Trunk	249 Cabbage Palm Sabal palmetto 12 16 14 Good (61% to 80%) Remain 250 Cabbage Palm Sabal palmetto 12 16 14 Good (61% to 80%) Remain 251 Royal Palm Roystonea regia 14 30 18 Good (61% to 80%) Remain Tapered Trunk
123 Cabbage Palm Sabal palmetto 10 30 14 537111.788 940920.468 Good (61% to 80%) Remain Bent Trunk 124 Cabbage Palm Sabal palmetto 10 28 14 537116.115 940915.836 Good (61% to 80%) Remain Leaning 125 Cabbage Palm Sabal palmetto 12 28 14 537111.727 940915.498 Fair (41% to 60%) Remain Bent Trunk, Tapered Trunk	251 Royal Palm Roystonea regia 14 30 18 Good (61% to 80%) Remain Tapered Trunk 252 Cabbage Palm Sabal palmetto 8 10 12 Good (61% to 80%) Remain 253 Cabbage Palm Sabal palmetto 8 20 12 Good (61% to 80%) Remain
126 Cabbage Palm Sabal palmetto 11 26 14 537116.521 940913.988 Fair (41% to 60%) Remain Bent Trunk, Tapered Trunk 127 Cabbage Palm Sabal palmetto 10 28 14 537110.171 940908.804 Fair (41% to 60%) Remain Bent Trunk, Tapered Trunk	254 Cabbage Palm Sabal palmetto 10 12 12 12 12 12 12 12
128 Cabbage Palm Sabal palmetto 10 27 14 537114.456 940902.804 Fair (41% to 60%) Remain Bent Trunk, Tapered Trunk	256 Banyan Ficus benghalensis 120 60 80 Fair (41% to 60%) Remain Limb Damage - Minor FLA. REGISTRATION NO. LA666/184 DATE: 3/3/2022
MAMBEACH CHASE AVENUE AND W 34TH STREET PATH	TREE DISPOSITION CHART CMJ OF RECORD: 4
ADDRESS:	Miami-Dade Office: 1845 NW 112 Avenue, Suite 211 Sweetwater, Florida: 33172
OFFICE OF CAPITAL IMPROVEMENT PROJECTS ADDRESS: CITY OF MIAMI BEACH, FL.33139	Sweetwater, Florida · 33172 305-599-6381 · Fax: 305-599-2797 www.millerlegg.com SCALE: AS SHOWN AS SHOWN NO.6667184 NO. DATE REVISION APP'D. BY Date: Sheet: Of
	NO.000/ 104 NO. DATE REVISION APP D. BT Date. Silect. 01











GENERAL SPECIFICATIONS:

THE WORK AND MATERIALS NECESSARY FOR MEETING THESE SPECIFICATIONS SHALL BE INCLUDED IN THE UNIT COST OF TREE AND/OR PALM RELOCATION.

THE CONTRACTOR SHALL PERFORM ALL TREE REMOVAL AND PRESERVATION ACTIVITIES IN COMPLIANCE THE CITY'S AND COUNTY'S CODES AND ORDINANCES & POLICIES.

NO PERSON SHALL REMOVE, RELOCATE, OR REPLACE ANY TREE OR VEGETATION FROM SUBJECT PROPERTY WITHOUT FIRST

OBTAINING A TREE PERMIT FROM THE CITY.

1.00 SUBMITTALS

A. CONTRACTOR SHALL SUBMIT THE FOLLOWING LIST OF ITEMS FOR REVIEW:

1) VERIFICATIONS OF QUALIFICATIONS. CONTRACTOR TO SUBMIT A LIST OF REFERENCES AND MINIMUM OF FIVE (5) COMPLETED PROJECTS IN SIMILAR NATURE. 2) VERIFICATION OF ALL LICENSES AND CERTIFICATIONS. 3) LIST OF ADDITIONAL COST. ALL EQUIPMENT TO BE UTILIZED FOR TREE PREPARATION AND TRANSPLANTING. 4) PROPOSED SEQUENCE OF EVENTS FROM START TO FINISH, IN WRITING.5) LITERATURE AND PROPOSED APPLICATION RATES FOR SPECIFIED WETTING AGENTS, FERTILIZERS, SOIL MIX, SOIL CONDITIONERS.6) TREE AND PALM WATERING SCHEDULE FOR TRANSPLANTED ANDTEMPORARY HOLDING AREA (IF APPLICAPLE). 1.01 LOCATION A. TREES SHALL BE RELOCATED ONCE FROM THEIR PRESENT LOCATION TO A LOCATIONSPECIFIED ON THE PLANS, UNLESS OTHERWISE NOTED. 1.02 ROOT PRUNING, WATERING BEFORE TRANSPLANTING: A. ALL TREE RELOCATION, ROOT PRUNING AND TRIMMING, SHALL BE PERFORMED UNDERTHE SUPERVISION OF A INTERNATIONAL SOCIETY OF ARBORICULTURE (I.S.A.) CERTIFIED ARBORIST, LICENSED IN MIAMI-DADE COUNTY.

B. ROOT PRUNE TREES PRIOR TO MOVING THEM. REFER TO "ROOT PRUNING GUIDELINES FOR HARDWOOD TREES". THAT IS, FOR A TREE WITH A 12" OR GREATER CALIPER, ROOT PRUNE <u>8 TO 12 MONTHS</u> PRIOR TO RELOCATING THE TREE. PRIOR TO ROOT PRUNING, THOROUGHLY WATER THE ROOT ZONE ON A CONTINUOUS BASIS WITH AT LEAST 2 TO 3 INCHES FOR HEALTHY GROWTH. DEEP WATER THE ENTIRE ROOTBALL AREA AT A MINIMUM ACCORDING TO OF WATER, 2 TO 3 DAYS PRIOR TO ROOT PRUNING. IF THE TREE HAS A DORMANT PERIOD, THEY SHOULD NOT BE TRANSPLANTED DURING THAT TIME. TREES SHOULD NOT BE TRANSPLANTED DURING PERIODS OF STRONG WINDS, DRY WINTER MONTHS OR DURING DROUGHT.

C. ROOT PRUNING SHALL BE ACCOMPLISHED BY DIGGING A TRENCH TWO-THIRDS (2/3) OF THE WAY AROUND THE TREE AT A MINIMUM OF 24" DEEP. THE ROOT PRUNING SHALL PRODUCE A ROOT BALL THAT CAN ADEQUATELY SUPPORT THE TREE TO BE MOVED. ROOT PRUNE ONLY WITH A MECHANICAL ROOT-PRUNING SAW OR OTHER DEVICE WHICH CLEANLY CUTS ROOTS. THIS TRENCH SHALL FORM A ROOTBALL DIAMETER OF APPROXIMATELY 10" TO 1' FOR EACH 1" OF TRUNK CALIPER MEASURES 6" ABOVE THE GROUND. D. LARGE MULTI-TRUNK TREES SUCH AS (FICUS SPP.) DIAMETER SHALL BE DETERMINED ON A CASE BY CASE BASIS TO PRODUCE A ROOT BALL THAT CAN ADEQUATELY SUPPORT THE TREE TO BE MOVED.

E. ALL EXPOSED ROOTS SHALL BE CUT OFF CLEANLY, WITH SHARP INSTRUMENTS. BACKFILL TRENCHES WITH NON—NATIVE MULCH OR SOIL CONSISTING OF 30% SILICA SAND AND 70% MUCK. ROOT BALL & TRENCH SHALL BE KEPT MOIST DURING REGENERATION PERIOD.

1.03 TOP PRUNING AND THINNING:

. THE AMOUNT OF GENERAL PRUNING AND THINNING SHALL BE LIMITED TO THE MINIMUM NECESSARY TO REMOVE DEAD OR INJURED TWIGS OR BRANCHES AS A RESULT OF TRANSPLANTING OPERATIONS. PRUNING AND THINNING SHALL BE DONE IN SUCH A MANNER AS NOT TO CHANGE THE NATURAL HABIT OR SHAPE OF A PLANT. THE PROJECT LANDSCAPE ARCHITECT SHALL BE CONTACTED PRIOR TO PERFORMING ANY MAJOR PRUNING OR THINNING.

B. ALL CROWN PRUNING SHALL BE DONE IN ACCORDANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE A-300 STANDARDS OR PALM PRUNING IN ACCORDANCE WITH THE STANDARDS IN "Arboriculture: Integrated Management of Landscape Trees, Shrubs, and Vines, Second Edition" by Richard W. Harris, CURRENT EDITION AND BY AN I.S.A. CERTIFIED ARBORIST.

1.04 BRACING AND GUYING OF TREES AFTER ROOT PRUNING:

. BRACING AND GUYING SHALL BE PROVIDED TO ASSURE THE TREES' STABILITY DURING THE ROOT REGENERATION PERIOD: AS PER THE APPLICABLE DETAIL.

.05 BALLING AND BURLAPPING

A. PLANT MATERIAL, WHICH IS IN A SOIL OF A LOOSE TEXTURE, WHICH DOES NOT READILY ADHERE TO THE ROOT SYSTEM, ESPECIALLY IN THE CASE OF LARGE PLANTS OR TREES, SHALL HAVE THE ROOTBALL TIGHTLY WRAPPED IN NATURAL BURLAP AND SECURED WITH A BIO-DEGRADABLE NATURAL HEMP ROPE, UNLESS OTHERWISE DIRECTED BY THE PROJECT LANDSCAPE ARCHITECT.

B. NO SYNTHETIC WRAPPING MATERIALS MAY BE USED,

<u> 1.06 TRANSPLANTING PLANT MATERIAL</u>

. MOVEMENT OF PLANTS ON PUBLIC R.O.W.'S SHALL COMPLY WITH ALL ORDINANCES, CODES AND SAFETY REQUIREMENTS,

. TRANSPORT MATERIALS ON VEHICLES LARGE ENOUGH TO ALLOW PLANTS TO NOT BE CROWDED AND DAMAGED. PLANTS SHALL BE COVERED TO PREVENT WIND DAMAGE DURING TRANSIT.

C. PROTECT PLANT MATERIAL DURING TRANSPORTING TO PREVENT DAMAGE TO THE ROOT SYSTEM AND DESICCATION OF LEAVES. TREES SHALL BE PROTECTED BY TYING IN THE BRANCHES AND COVERING ALL EXPOSED BRANCHES AS NECESSARY. DO NOT BEND OR BIND-TIE PLANT MATERIAL IN SUCH A MANNER AS TO DAMAGE BARK, BREAK BRANCHES OR ALTER THE NATURAL SHAPE.

D. ALL TRUNKS AND LIMBS THAT COULD BE DAMAGED DURING TRANPLANTING SHALL BE WRAPPED WITH AT LEAST TWO LAYERS OF BURLAP OR SIMILAR FABRIC PRIOR TO MOVING.

E. THE CONTRACTOR SHALL EXERCISE CARE IN HANDLING, LOADING, UNLOADING, STORING, AND TRANSPORTING MATERIAL TO PREVENT DAMAGE. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR PROTECTION AND SAFEKEEPING OF MATERIALS STORED.

. TRANSPORTING MUST BE DONE WITHIN 24 HOURS AFTER BEING DUG. STORE TREES IN SHADE, WHEN APPLICABLE, AND KEEP THE ROOT BALL AND CANOPY MOIST.

. WHEN TREE IS READY TO BE TRANSPLANTED, EXISTING BACKFILLED ROOT PRUNE TRENCH SHALL BE CAREFULLY EXCAVATED SO AS NOT TO DISTURB OR DAMAGE NEW ROOTS WHEN TREE IS READY TO BE TRANSPLANTED.

. THE TREE SHALL BE GENTLY LIFTED BY THE ROOT BALL NOT THE TRUNK. IF THE ROOT BALL BREAKS DUE TO AN UNSTABLE SOIL OR ANY OTHER REASON THE TREE MAY BE PINNED. THE LAST RESORT IS TO CHOKE THE TREE. EXTRA CARE SHOULD BE MADE SO THE BARK IS NOT STRIPPED DURING THIS OPERATION. ALL AREAS OF THE TRUNK SHOULD BE ADEQUATELY PROTECTED WITH BURLAP OR OTHER TYPE OF FABRIC.

1.07 INSTALLATION

EXCAVATION OF HOLES:

PLANT HOLES SHALL BE ROUGHLY CYLINDRICAL IN SHAPE WITH SIDES APPROXIMATELY VERTICAL THE DEPTH OF THE HOLE SHALL BE EQUAL TO THE ROOTBALL DEPTH. THE DIAMETER OF THE HOLE SHALL BE A MINIMUM OF TWO (2) TIMES THE WIDTH OF THE ROOTBALL DIAMETER. THE BOTTOM OF THE HOLE SHOULD BE COMPACTED SO THAT A MINIMAL AMOUNT OF DOWNWARD SETTLING TAKES PLACE.

PLANT MATERIAL SHALL BE PLANTED A MINIMUM OF 2" HIGHER THAN THEIR NATURAL AND ORIGINAL PLANTING LEVEL PRIOR TO THEIR RELOCATION AND PLACEMENT ON THE NEW SITE. WHEN LOWERED INTO THE HOLE, THE PLANTS SHALL REST ON THE PREPARED HOLE BOTTOM SUCH THAT THE SURFACE ROOTS AT THE TOP OF THE ROOTBALL ARE LEVEL OR SLIGHTLY ABOVE THE LEVEL OF THE TOP OF THE HOLE. CREATE A SAUCER, APPROXIMATELY 6" DEEP TO HELP HOLD WATER. THE PLANTS SHALL BE SET STRAIGHT OR PLUMB OR NORMAL TO THE RELATIONSHIP OR THEIR GROWTH PRIOR TO TRANSPLANTING. THE PROJECT LANDSCAPE ARCHITECT OR REPRESENTATIVE RESERVES THE RIGHT TO REALIGN ANY PLANT MATERIAL AFTER IT HAS BEEN SET, WITHOUT

USE PLANTING SOIL FOR TREE INSTALLATION WHEN POOR SOILS ARE PRESENT AT NEW LOCATION CONSISTING OF 50/50 MIX OF GENERAL PURPOSE PLANTING SOIL TO SAND. PALMS RECEIVE 30/70 GENERAL PURPOSE PLANTING SOIL TO SAND MIX. EXCEPTION SHALL BE MADE BY LANDSCAPE ARCHITECT. 2) BACKFILL THE BOTTOM TWO-THIRDS OF THE PLANTING HOLE AND FIRMLY TAMP AND SETTLE BY WATERING AS BACKFILLING PROGRESSES. AFTER HAVING TAMPED AND SETTLED THE BOTTOM TWO-THIRDS OF THE HOLE, THOROUGHLY PUDDLE WITH WATER AND FILL REMAINING ONE-THIRD OF THE HOLE WITH PLANTING SOIL, TAMPING AND WATERING TO ELIMINATE AIR POCKETS.

1.08 WATERING TRANSPLANTED TREES:

A. ROOTBALL WATERING: MAINTAIN A SOIL MOISTURE IN THE ROOT ZONE AT AN OPTIMUM LEVEL THE FOLLOWING RECOMMENDED SCHEDULE:

FIRST MONTH - EVERY DAY SECOND MONTH - 3 TIMES PER WEEK FOLLOWING TWO MONTHS - 2 TIMES PER WEEK LAST EIGHT MONTHS - WEEKLY

B. IF THERE IS NO SOURCE FOR WATER AVAILABLE AT THE PROJECT, SUCH AS A HOSEBIB(S) OR FIRE HYDRANTS(S) IF APPROVED FOR USE, THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING WATER BY MEANS OF A TRUCK OR TANK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PAY ANY FEES FOR WATER USE.

C. THE CONTRACTOR SHALL ADHERE TO THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT'S WATER RESTRICTIONS CURRENT AT THE TIME OF RELOCATION ACTIVITIES.

1.09 MULCHING OF PLANT SAUCER:

A. MULCH SHALL BE STANDARD DARK BROWN MULCH OR EQUAL (NO CYPRESS MULCH OR RED MULCH). THE WATERING SAUCER SHALL RECEIVE A 3" DEPTH LAYER WHICH SHALL TAPER TO A 1" DEPTH LAYER UP TO 3" FROM THE TRUNK OF TREE. (REFER TO APPROPRIATE DETAIL THIS SHEET FOR INSTALLATION)

1.10 APPLICATION OF FERTILIZER:

A. AT TIME OF WATERING ROOT-PRUNED TREES PRIOR TO TRANSPLANTING, DRENCH ROOTBALL ONCE PER WEEK DURING THE COURSE OF WATERING WITH A SOLUBLE FERTILIZER THAT HAS A 20.20.20 ANALYSIS AT THE MANUFACTURER'S RECOMMENDED RATE.

B. RELOCATED TREES SHALL NOT BE FERTILIZED AT TIME OF PLANTING, BUT SHALL BE WATERED SUFFICIENTLY UNTIL THE TREE GROWTH IS REESTABLISHED. THREE (3) WEEKS AFTER TRANSPLANTING, AND AFTER MULCHING, APPLY ON THE SURFACE, EVENLY SPREAD OVER THE AREA OF THE ENTIRE ROOTBALL, FEC (FLORIDA EAST COAST FERTILIZER CO.) #5231 (12-6-8) OR EQUAL AT THE RATE OF 0.5KG PER 1" OF TRUNK DIAMETER.

1.11 STAKING TREES:

A. STAKE ALL TREES AT THE NEW SITE WITH NEW TIMBERS WITH A MINIMUM 2" X 4" DIMENSION AS PER THE DETAILS ENCLOSED, OR IN THE CASE OF OBSTACLE, IN ANOTHER MANNER WHICH WILL SUPPORT THE TREES.

1.12 CLEAN-UP:

A. DISPOSAL OF WASTE: ALL WASTE AND OTHER OBJECTIONABLE MATERIAL CREATED THROUGH PLANTING OPERATIONS AND LANDSCAPE CONSTRUCTION SHALL BE REMOVED COMPLETELY ON A DAILY BASIS FROM THE JOB OR AS DIRECTED BY THE PROJECT LANDSCAPE ARCHITECT. ANY PAVED AREAS, INCLUDING CURBS AND SIDEWALKS THAT HAVE BEEN STAINED WITH SOIL, SOD WASTE, FERTILIZER OR OTHER WASTE SHALL BE THOROUGHLY SWEPT.

B. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF STAKES AND BATTENS AND UNTIE ANY TIED-UP CANOPIES WHEN IT IS DETERMINED BY THE PROJECT LANDSCAPE ARCHITECT THAT SUFFICIENT TIME HAS ELAPSED FOR THE PLANTS TO ROOT STABILIZE, AND/OR AT THE END OF THE ONE YEAR GUARANTEE PERIOD. THIS SHALL BE DONE EVEN IF THE PROJECT HAS BEEN COMPLETED AND GIVEN FINAL ACCEPTANCE. THE CONTRACTOR SHALL UNTIE CANOPIES IMMEDIATELY AFTER INSTALLATION AND REMOVE STAKES AFTER ONE YEAR.

C. BACKFILLING OF HOLE LEFT BY RELOCATED OR REMOVED TREE SHALL BE DONE IMMEDIATELY AFTER TREE REMOVAL TO PREVENT INJURIES. THE CONTRACTOR SHALL BACKFILL HOLES WITH CLEAN FILL FROM SITE, FLUSH WITH ADJACENT GRADE.

1.13 GUARANTEE AND REPLACEMENT:

A. ALL NEWLY PLANTED AND RELOCATED PLANT MATERIAL SHALL BE GUARANTEED DURING RELOCATION ACTIVITIES INCLUDING ROOT PRUNING, AND SHALL HAVE AN ADDITIONAL ONE (1) YEAR GUARANTEE STARTING AT TIME OF FINAL RELOCATION AND ACCEPTANCE BY LANDSCAPE ARCHITECT.

B. ALL TREES THAT LEAN OR ARE BLOWN OVER, CAUSED BY WINDS LESS THAN 75 MPH AS DEFINED BY THE MIAMI HURRICANE CENTER, WILL BE RE-SET AND BRACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.

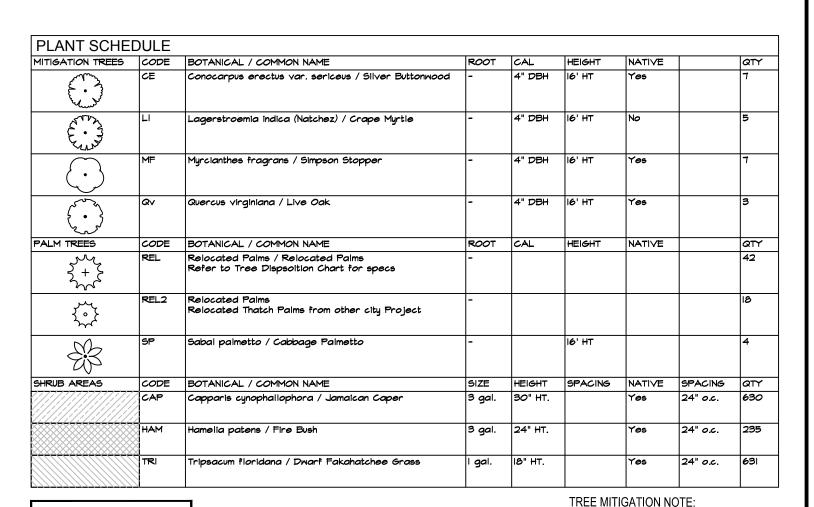
1.14 SCHEDULE AND APPROVALS:

THE LANDSCAPE CONTRACTOR SHALL SUBMIT A WRITTEN SCHEDULE OF OPERATIONS AND WRITTEN REQUESTS FOR APPROVALS IN ACCORDANCE WITH PROJECT SPECIFICATIONS OR AS OTHERWISE AGREED UPON WITH THE OWNER.

1.15 FINAL ACCEPTANCE:

OWNER SHALL REVIEW PROJECT UPON NOTIFICATION BY CONTRACTOR. OWNER SHALL ISSUE A FINAL ACCEPTANCE AFTER ALL CONTRACT ITEMS AND OBLIGATIONS ARE SATISFACTORY.

ALL RELOCATIONS ARE TO BE COMPLETED IN A MANNER IN ACCORDANCE WITH INDUSTRY STANDARDS.



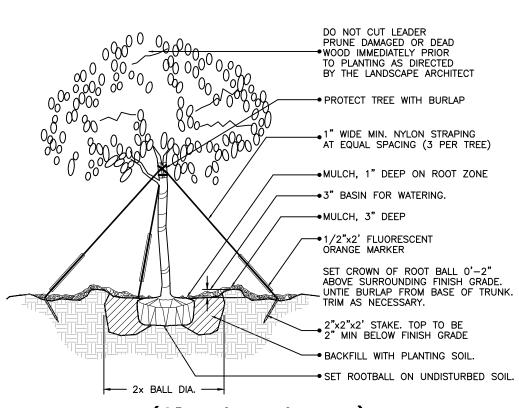
ANDSCAPE TAG LEGEND: PROPOSED TREE (XXX) RELOCATED TREE

City of Miami Beach Code Section 46-61 Total Trees Removed = 11

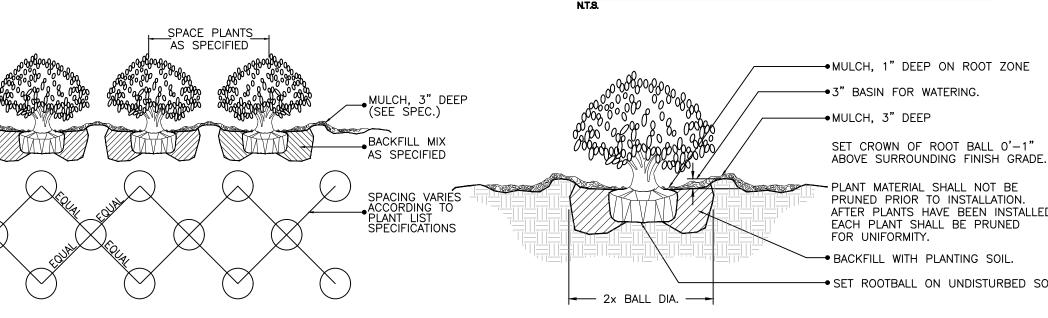
(105" DBH)

Total Palms Removed = 4 Tree Mitigation Provided= 18 trees, @ 4" DBH, 16ht.

Palm Mitigation Provided = 2 trees, @ 4" DBH, 16ht.

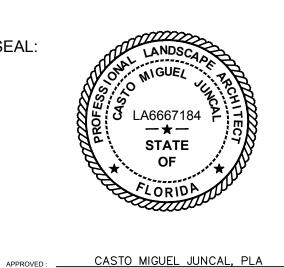


(2" cal. and over) LARGE TREE PLANTING DETAIL



SHRUB / GROUNDCOVER SPACING / PLANTING DETAIL

SHRUB PLANTING DETAIL



DATE: 3/3/2022

L1.4

rawing No.:

KEY PLAN (NOT TO SCALE):

ML PROJECT No. 21-00045

OFFICE OF CAPITAL IMPROVEMENT PROJECTS 1701 MERIDIAN AVENUE, MIAMI BEACH, FL.33139

CHASE AVENUE AND W 34TH STREET PATH

CITY OF MIAMI BEACH, FL



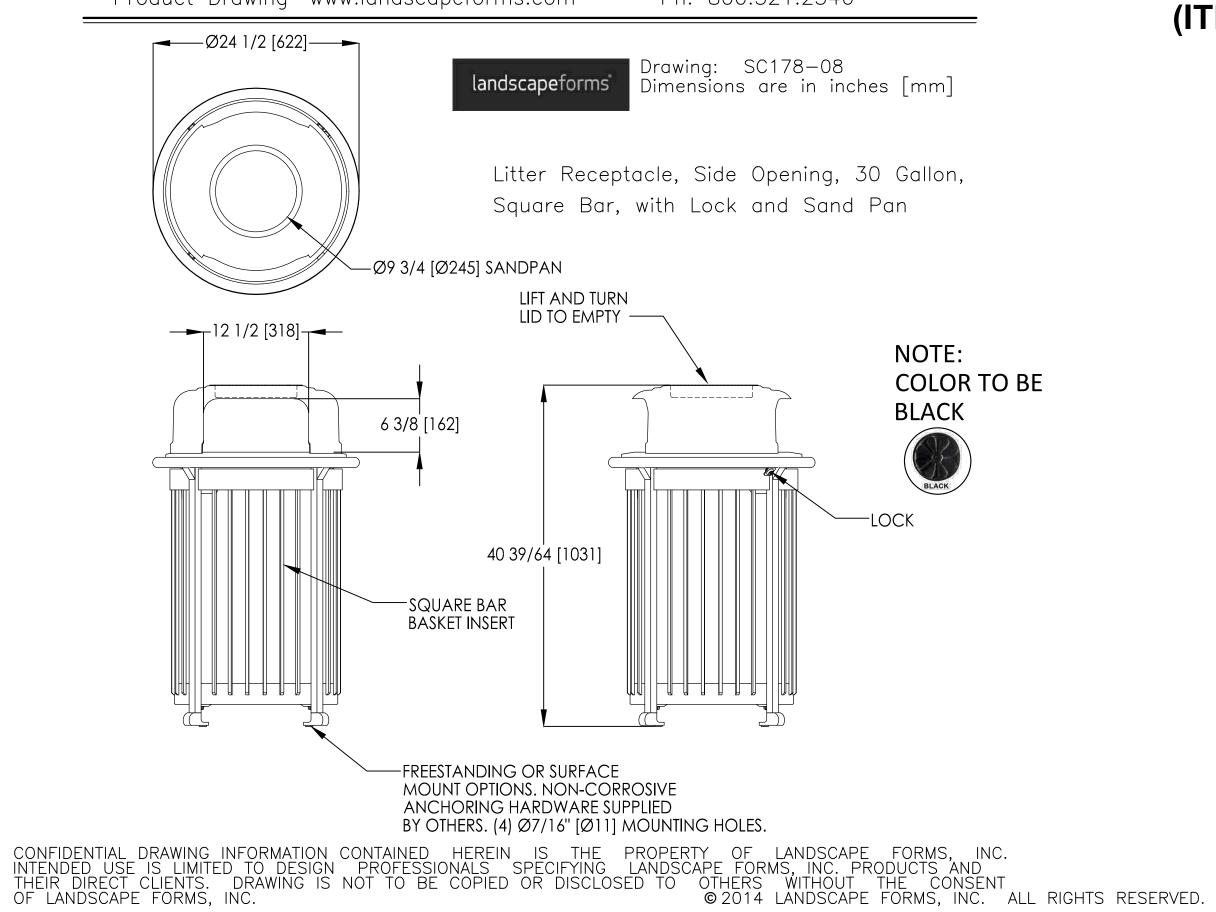
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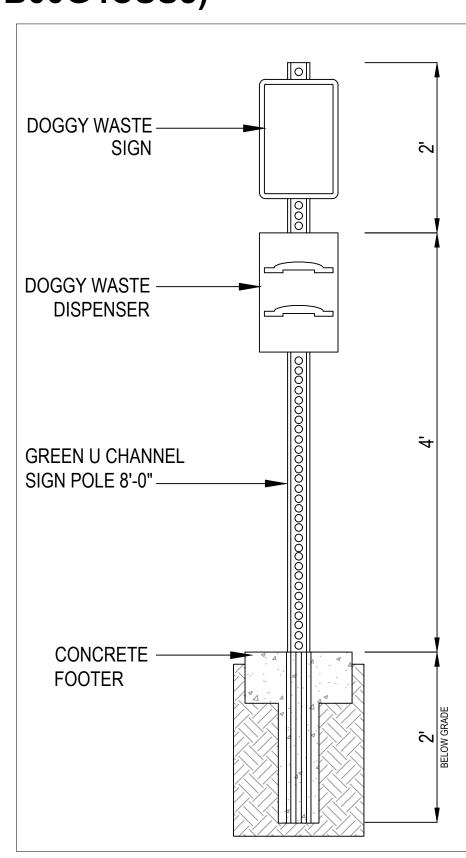
Date: 5/19/2010 Ph: 800.521.2546 Product Drawing www.landscapeforms.com



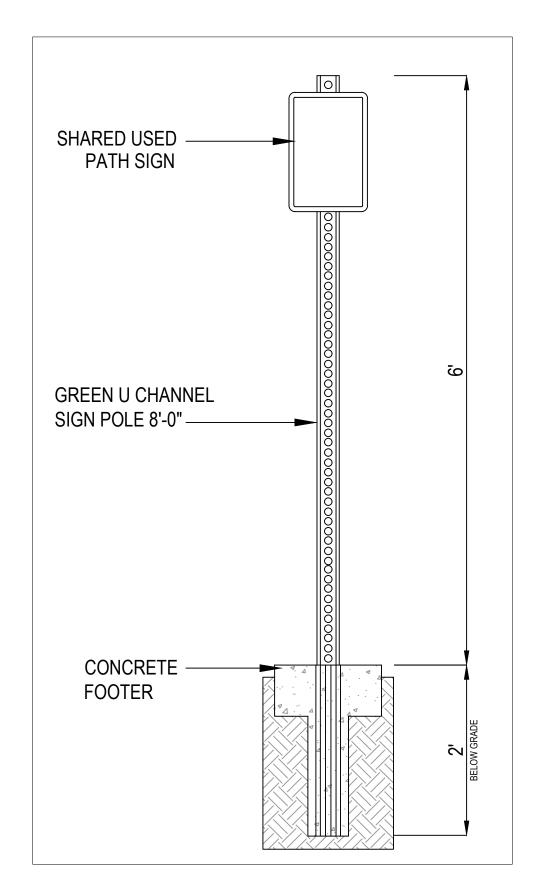




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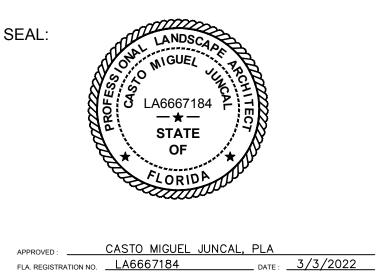




KEY PLAN (NOT TO SCALE):

PET WASTE DISPENSER DETAIL Scale: 3/4" = 1'





L1.5

ML PROJECT No. 21-00045

OFFICE OF CAPITAL IMPROVEMENT PROJECTS 1701 MERIDIAN AVENUE, MIAMI BEACH, FL.33139

Scale: N.T.S.

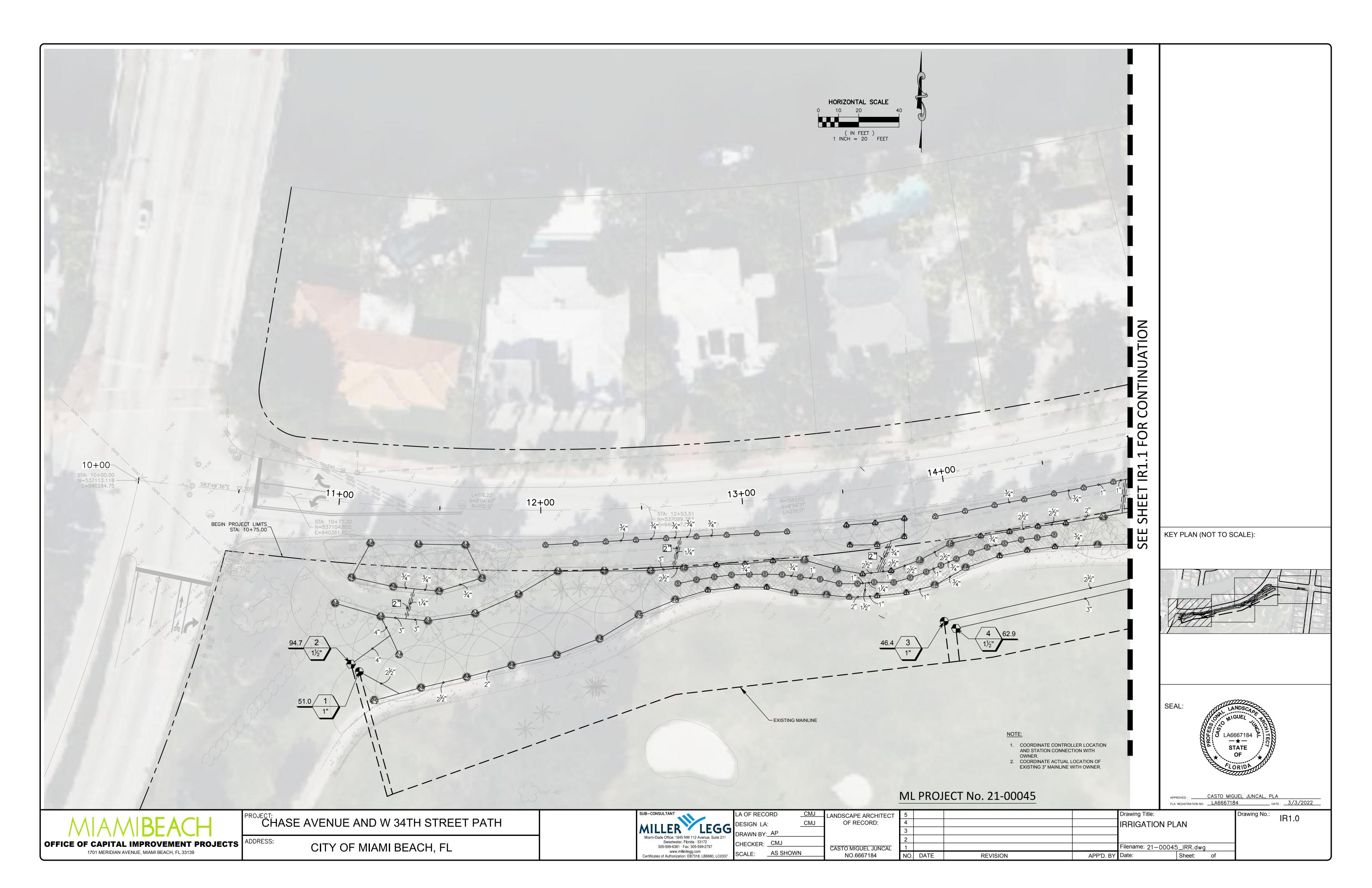
LANDSCAPEFORMS SCARBOROUGH

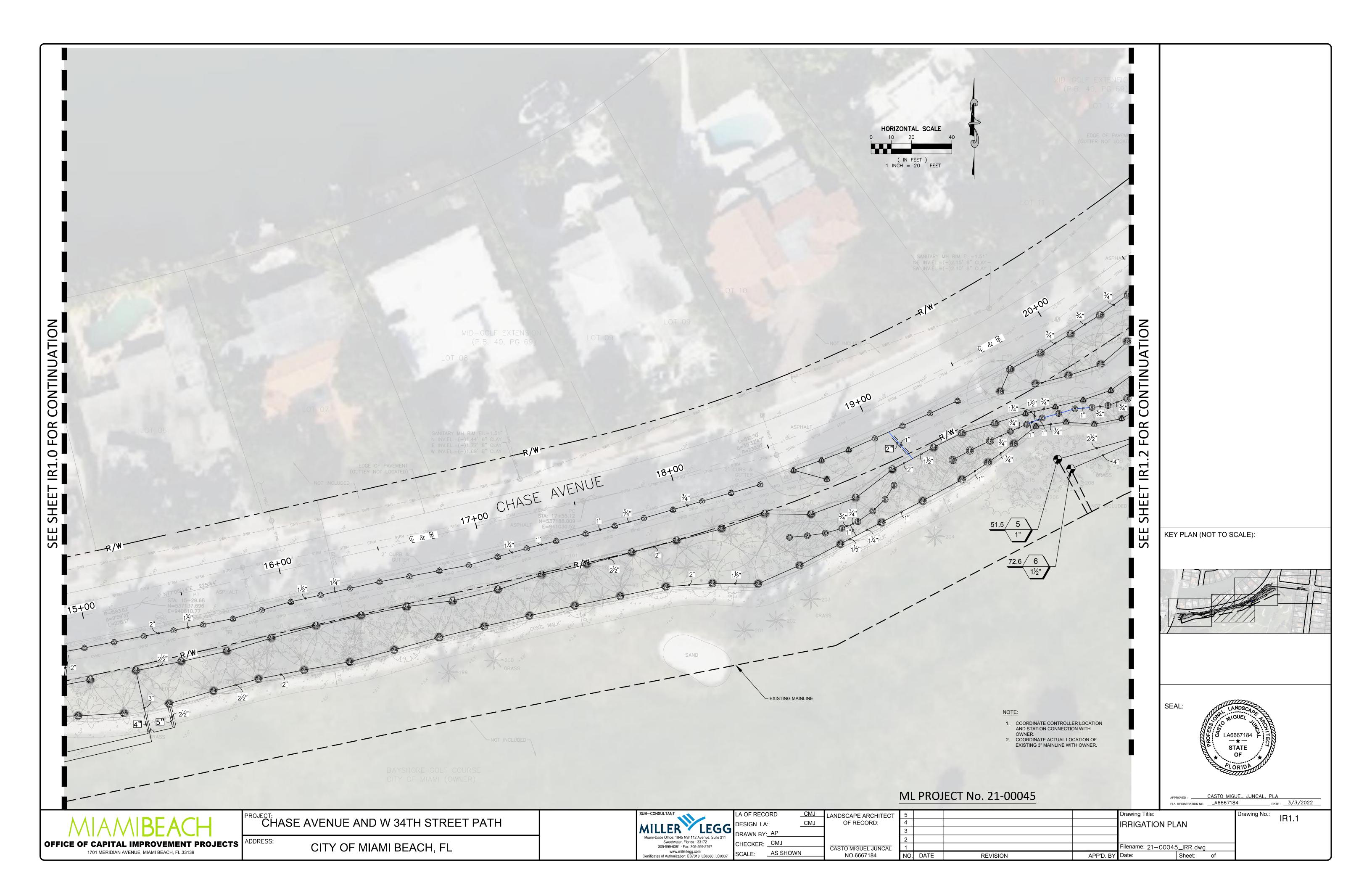
CHASE AVENUE AND W 34TH STREET PATH CITY OF MIAMI BEACH, FL

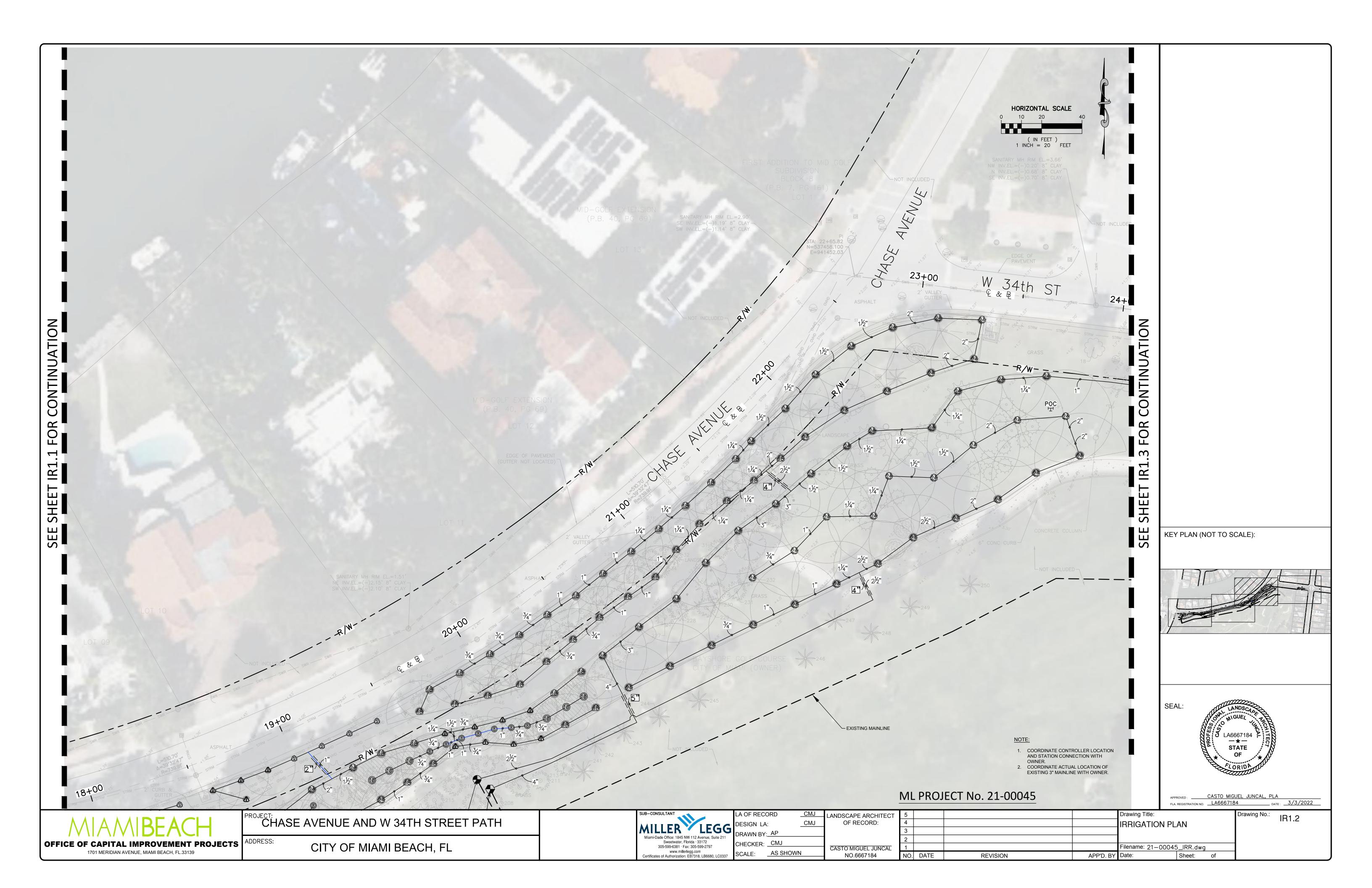
Miami-Dade Office: 1845 NW 112 Avenue, Suite 211 Sweetwater, Florida · 33172 305-599-6381 · Fax: 305-599-2797 www.millerlegg.com

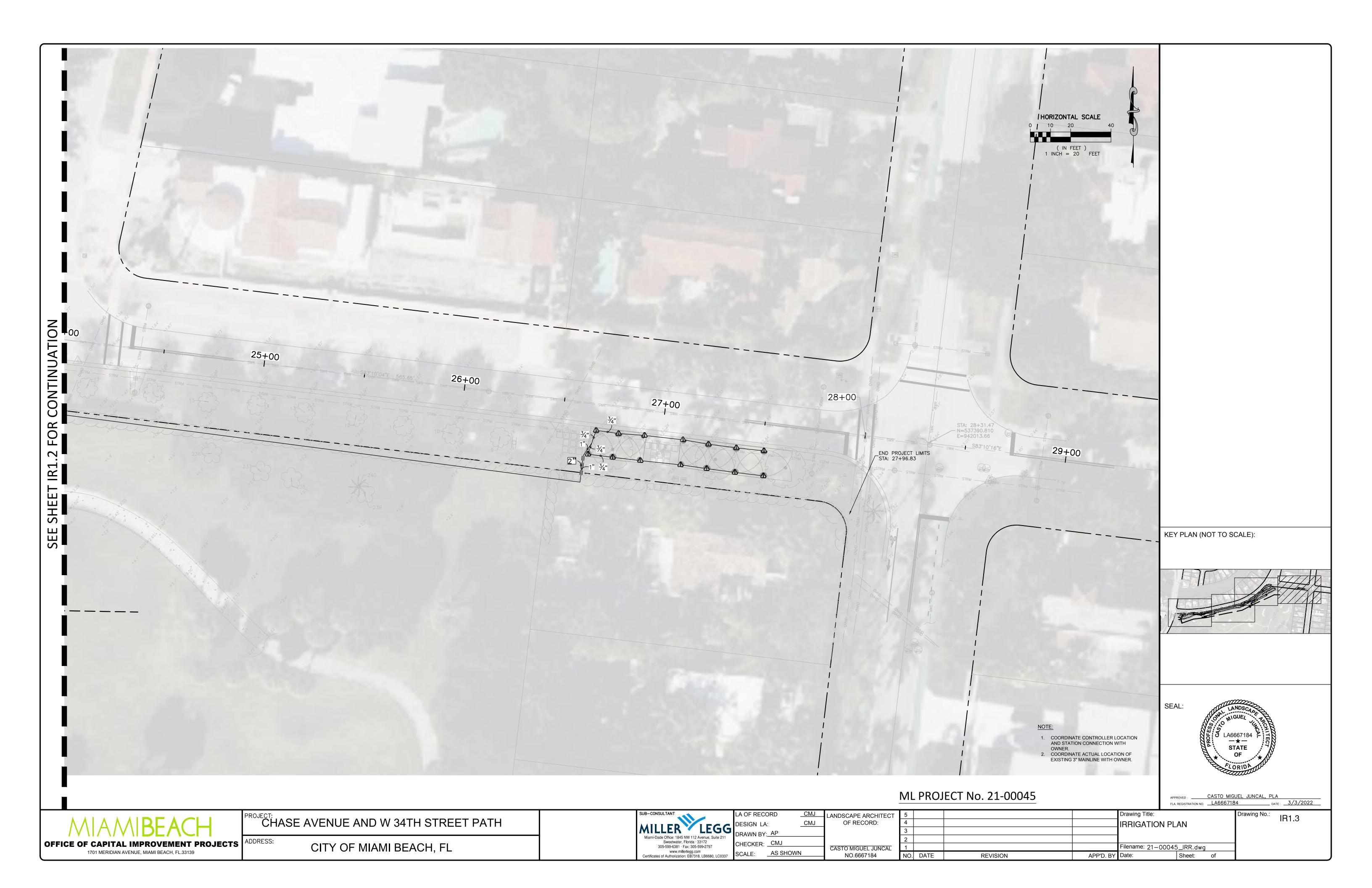
ANDSCAPE ARCHITECT CMJ OF RECORD: CASTO MIGUEL JUNCAL AS SHOWN SCALE: NO.6667184

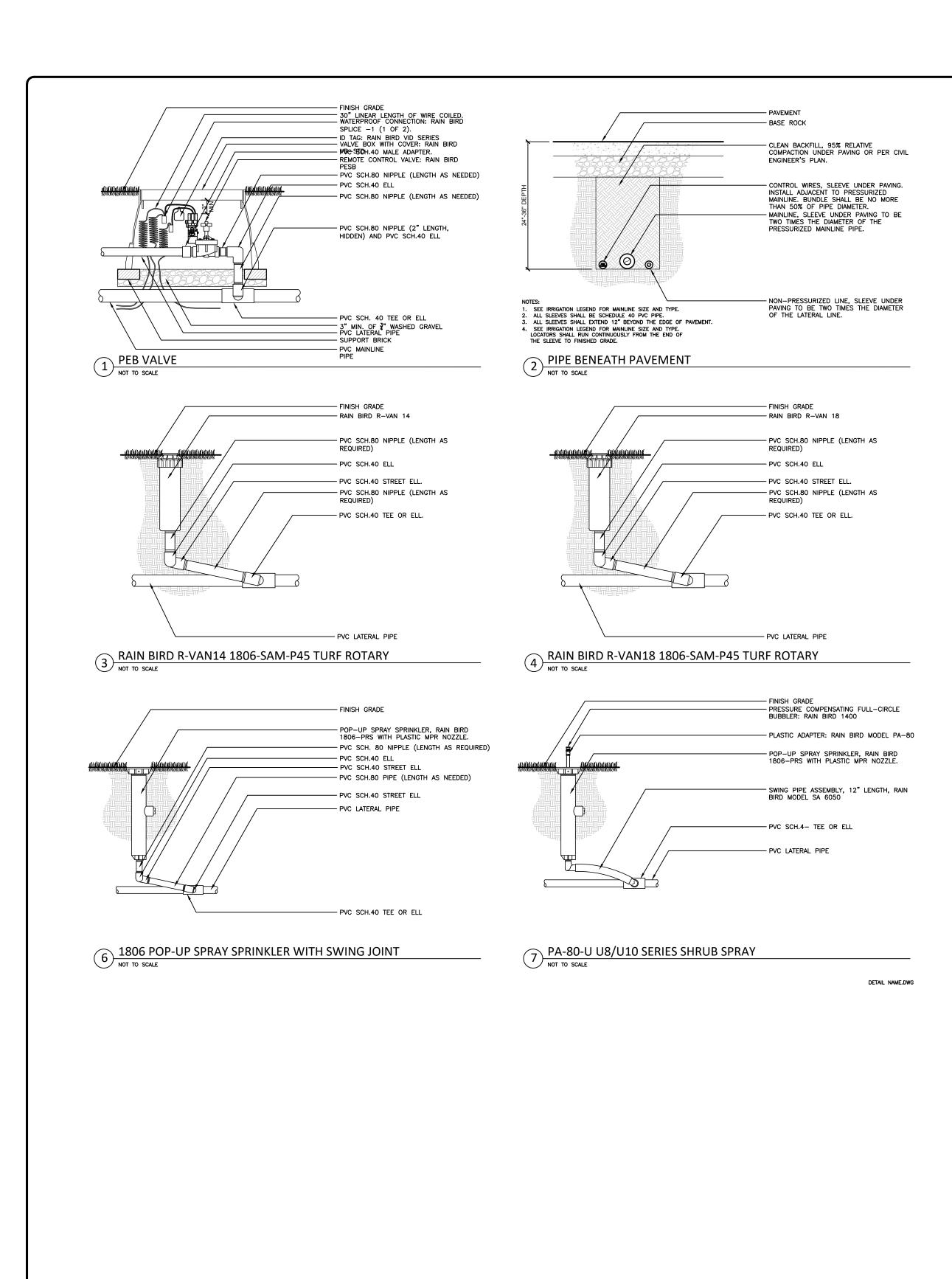
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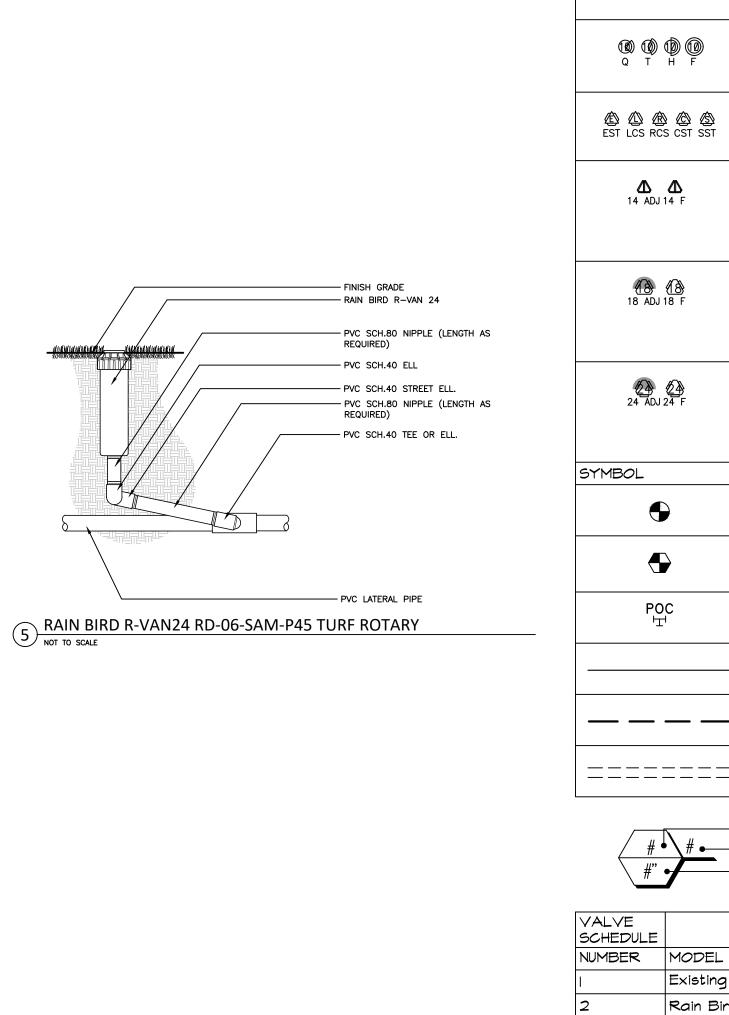


CHASE AVENUE AND W 34TH STREET PATH

CITY OF MIAMI BEACH, FL

OFFICE OF CAPITAL IMPROVEMENT PROJECTS ADDRESS:

1701 MERIDIAN AVENUE, MIAMI BEACH, FL.33139



REQUIRED)

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	DETAIL
80 80 80 80 Q T H F	Rain Bird PA-80-U U8 Series Shrub Spray on fixed riser with the PA-85 Plastic Shrub Adapter. Use with 1/2" FPT bubbler or spray nozzle. U series nozzles.	38	30	
(10) (10) (10) Q T H F	Rain Bird PA-80-U UIO Series Shrub Spray on fixed riser with the PA-85 Plastic Shrub Adapter. Use with 1/2" FPT bubbler or spray nozzle. U series nozzles.	6	30	
EST LCS RCS CST SST	Rain Bird 1806 15 Strip Series Shrub Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet.	44	30	
14 ADJ 14 F	Rain Bird R-VAN14 1806-SAM-P45 Turf Rotary, 8'-14' 45-270 degrees and 360 degrees. Hand Adjustable Multi-Stream Rotary w/1800 turf spray body on 6" pop-up, with check valve and 45 psi in-stem pressure regulator. 1/2" NPT Female Threaded Inlet.	50	45	
18 ADJ 18 F	Rain Bird R-VAN18 1806-SAM-P45 Turf Rotary, 13'-18' 45-270 degrees and 360 degrees. Hand Adjustable Multi-Stream Rotary w/1800 turf spray body on 6" pop-up, with check valve and 45 psi in-stem pressure regulator. 1/2" NPT Female Threaded Inlet.	45	45	
24 ADJ 24 F	Rain Bird R-VAN24 1806-SAM-P45 Turf Rotary, 17'-24' 45-270 degrees and 360 degrees. Hand Adjustable Multi-Stream Rotary w/1800 turf spray body on 6" pop-up, with check valve and 45 psi in-stem pressure regulator. 1/2" NPT Female Threaded Inlet.	105	45	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY		DETAIL
•	Existing Valve	3		
•	Rain Bird PEB I", I-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration.	3		E
POC 닛	Point of Connection 2" EXISTING POINT OF CONNECTION	I		
	Irrigation Lateral Line: PVC Schedule 40	5,949 l.f.		
	Irrigation Mainline: PVC Class 200 SDR 21	1,499 l.f.		
	Pipe Sleeve: PVC Schedule 40	121.0 l.f.		

Turf Rotary 51.00

Turf Rotary 62.88

Turf Rotary

Turf Rotary

Rain Bird PEB | 1-1/2" Turf Rotary | 72.64 | 58.53 | 0.44 in/h

Turf Rotary 94.66 62.47 0.6 in/h

51.46

Valve Callout

Existing Valve

Rain Bird PEB

Existing Valve

Rain Bird PEB

Existing Valve

CMJ LANDSCAPE ARCHITECT

OF RECORD:

CASTO MIGUEL JUNCAL

NO.6667184

CMJ

CHECKER: CMJ

SCALE:

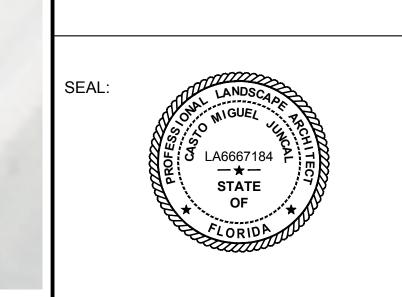
AS SHOWN

Miami-Dade Office: 1845 NW 112 Avenue, Suite 211

Sweetwater, Florida · 33172 305-599-6381 · Fax: 305-599-2797

www.millerlegg.com Certificates of Authorization: EB7318, LB6680, LC0337

Valve Flow



Filename: 21-00045_IRR.dwg

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KEY PLAN (NOT TO SCALE):

ML PROJECT No. 21-00045

REVISION

NO. DATE

APPROVED: CASTO MIGUEL JUNCAL, PLA FLA. REGISTRATION NO. LA6667184 Drawing Title: IRRIGATION DETAILS

APP'D. BY Date:

PRECIP

0.46 in/h

0.39 in/h

66.25 0.57 in/h

46.40 | 67.27 | 0.39 in/h

57.5

63.65

IRRIGATION NOTES & SPECIFICATIONS:

THE SYSTEM HAS BEEN DESIGNED TO CONFORM WITH THE REQUIREMENTS OF ALL APPLICABLE CODES. SHOULD ANY CONFLICT EXIST, THE REQUIREMENTS OF THE CODES SHALL PREVAIL. IT IS THE RESPONSIBILITY OF THE OWNER/INSTALLATION CONTRACTOR TO INSURE THE ENTIRE SYSTEM IS INSTALLED ACCORDING TO ALL APPLICABLE LAWS, RULES, REGULATIONS AND CONVENTIONS. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS ACCORDING TO FEDERAL, STATE AND LOCAL

THE SCOPE OF WORK IS SHOWN ON THE PLANS, NOTES AND DETAILS. THE IRRIGATION CONTRACTOR SHALL BE CERTIFIED AS A CERTIFIED IRRIGATION CONTRACTOR BY THE IRRIGATION ASSOCIATION. THE CERTIFICATION SHALL BE CURRENT AND IN GOOD STANDING.

SCOPE OF WORK

THE WORK SPECIFIED IN THIS SECTION CONSISTS OF FURNISHING ALL COMPONENTS NECESSARY FOR THE INSTALLATION, TESTING, AND DELIVERY OF A COMPLETE, FULLY FUNCTIONAL AUTOMATIC LANDSCAPE IRRIGATION SYSTEM THAT COMPLETELY COMPLIES WITH THE 100% IRRIGATION PLANS, SPECIFICATIONS, NOTES, DETAILS AND ALL APPLICABLE LAWS, REGULATIONS, CODES AND ORDINANCES. THIS WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, THE PROVIDING OF ALL REQUIRED MATERIAL (PIPE, VALVES, FITTINGS, CONTROLLERS, WIRE, PRIMER, GLUE, ETC.), LAYOUT, PROTECTION OF THE PUBLIC, EXCAVATION, ASSEMBLY, INSTALLATION, BACK FILLING, COMPACTING, REPAIR OF ROAD SURFACES, CONTROLLER AND LOW VOLTAGE FEEDS TO VALVES, CLEANUP, MAINTENANCE, GUARANTEE AND AS-BUILT PLANS.

ALL IRRIGATED AREAS SHALL PROVIDE 100% HEAD-TO-HEAD COVERAGE FROM A FULLY AUTOMATIC IRRIGATION SYSTEM WITH A RAIN SENSOR AS SHOWN. THE RAIN SENSOR SHALL BE INSTALLED TO PREVENT ITS ACTIVATION BY ADJACENT HEADS. ALL WATERING PROCEDURES SHALL CONFORM TO LOCAL CODES, AS WELL AS THIS PROJECT'S REGIONAL WATER MANAGEMENT DISTRICT RESTRICTIONS AND REGULATIONS. ZONES ARE PRIORITIZED FIRST BY PUBLIC SAFETY AND THEN BY HYDRAULIC CONCERNS. THIS SEQUENCING WILL BE A MANDATORY PUNCH LIST ITEM. THESE PLANS HAVE BEEN DESIGNED TO SATISFY/EXCEED THE FLORIDA BUILDING CODE (FBC) APPENDIX F AND THE FLORIDA IRRIGATION SOCIETY STANDARDS AND SPECIFICATIONS FOR TURF AND LANDSCAPE IRRIGATION SYSTEMS, FOURTH EDITION.

CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES 72 HOURS PRIOR TO COMMENCEMENT OF WORK.

IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, STRUCTURES AND UTILITIES. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTION, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE DESIGN. SUCH OBSTRUCTIONS, OR DIFFERENCES, SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER' AUTHORIZED REPRESENTATIVE. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.

IRRIGATION CONTRACTOR SHALL REPAIR OR REPLACE ALL EXISTING SITE ITEMS DAMAGED BY THEIR WORK. IRRIGATION CONTRACTOR SHALL COORDINATE THEIR WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES AND LATERALS THROUGH WALLS, UNDER ROADWAYS AND PAVING,

THE CONTRACTOR SHALL TAKE IMMEDIATE STEPS TO REPAIR, REPLACE, OR RESTORE ALL SERVICES TO ANY UTILITIES WHICH ARE DISRUPTED DUE TO THEIR OPERATIONS. ALL COSTS INVOLVED IN DISRUPTION OF SERVICE AND REPAIRS DUE TO NEGLIGENCE ON THE PART OF THE CONTRACTOR SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

POINT OF CONNECTION (P.O.C.)

THE P.O.C. IS TO AN EXISTING WATER MAIN. CONTRACTOR SHALL VERIFY THESE MINIMUM CONDITIONS CAN BE MET PRIOR TO BEGINNING IRRIGATION SYSTEM INSTALLATION IF THE CONDITIONS CANNOT BE MET; THE CONTRACTOR MUST NOTIFY THE DESIGNER PRIOR TO PROCEEDING WITH THE WORK. IF THE CONTRACTOR DOES NOT DO SO, THE CONTRACTOR PROCEEDS AT THEIR OWN RISK AND BECOME RESPONSIBLE FOR ANY FUTURE WORK REQUIRED TO MAKE THE SYSTEM PERFORM AS REQUIRED.

<u>PIPING</u>

PIPE LOCATIONS SHOWN ON THE PLAN ARE SCHEMATIC AND SHALL BE ADJUSTED IN THE FIELD. WHEN LAYING OUT MAINLINES PLACE A MAXIMUM OF 18" AWAY FROM EITHER THE BACK OF CURB, FRONT OF WALK, BACK OF WALK, OR OTHER HARDSCAPE TO ALLOW FOR EASE IN LOCATING AND PROTECTION FROM PHYSICAL DAMAGE. INSTALL ALL LATERAL PIPE NEAR EDGES OF PAVEMENT OR AGAINST BUILDINGS WHENEVER POSSIBLE TO ALLOW SPACE FOR PLANT ROOT BALLS. ALWAYS INSTALL PIPING INSIDE PROJECT PROPERTY BOUNDARY.

PIPES SHALL ALWAYS BE PLACED IN PLANTING BEDS. IF IT IS NECESSARY TO HAVE PIPING UNDER HARDSCAPES, SUCH AS ROADS, WALKS, AND PATIOS, THE PIPES MUST BE SLEEVED USING SCH 40 PVC WITH THE SLEEVE DIAMETER BEING TWICE THE SIZE OF THE PIPE IT IS CARRYING WITH A MINIMUM SLEEVE SIZE OF 2".

PIPE SIZES SHALL CONFORM TO THOSE SHOWN ON THE DRAWINGS. NO SUBSTITUTIONS OF SMALLER PIPE SIZES SHALL BE PERMITTED, BUT SUBSTITUTIONS OF LARGER SIZES MAY BE APPROVED. ALL DAMAGED AND REJECTED PIPE SHALL BE REMOVED FROM THE SITE AT THE TIME OF SAID REJECTION.

MAINLINE SHALL BE PVC SCHEDULE 40 WITH PVC SCHEDULE 40, SOLVENT WELD FITTINGS (SIZED PER PLANS).

CONTRACTOR TO ENSURE ALL MAINLINE PIPING IS PROPERLY RESTRAINED USING MECHANICAL JOINT FITTINGS, RESTRAINING COLLARS, THREADED RODS, THRUST BLOCKS, ETC., AS AND WHERE REQUIRED. CONTRACTOR SHALL REFER TO PIPE MANUFACTURER'S RECOMMENDED INSTALLATION PRACTICES FOR FURTHER DIRECTION.

PVC PIPE JOINT COMPOUND AND PRIMER: SLOW-DRYING, HEAVY DUTY CEMENT AND TINTED (PURPLE) PRIMER THAT IS COMPATIBLE WITH THE CEMENT. THE PVC CEMENT SHALL BE WELD-ON 2711 GREY AND THE PRIMER SHALL BE WELD-ON P70 PURPLE PRIMER, OR APPROVED EQUALS.

ELECTRICAL POWER SUPPLY

ELECTRICAL SUPPLY FOR PUMPS AND CONTROLLERS TO BE PROVIDED BY IRRIGATION CONTRACTOR CONTRACTOR TO COORDINATE WITH LOCAL UTILITIES FOR THE INSTALLATION OF AND CONNECTION TO AVAILABLE SITE POWER SUPPLY FOR REQUIRED ELECTRICAL COMPONENTS AS SET FORTH IN THE 100% IRRIGATION PLANS.

ALL ELECTRICAL INSTALLATION TO COMPLY WITH THE NATIONAL ELECTRICAL CODE AND ANY AND ALL OTHER APPLICABLE ELECTRICAL CODES, LAWS AND REGULATIONS. A LICENSED ELECTRICIAN SHALL PERFORM ALL ELECTRICAL HOOK-UPS.

<u>WIRING</u>

IRRIGATION CONTROL WIRE SHALL BE THERMOPLASTIC SOLID COPPER, SINGLE CONDUCTOR, LOW VOLTAGE IRRIGATION CONTROLLER WIRE SUITABLE FOR DIRECT BURIAL AND CONTINUOUS OPERATION AT RATED

VOLTAGES.

TAPE AND BUNDLE CONTROL WIRES EVERY 10' AND RUN ADJACENT TO THE MAINLINE. AT ALL TURNS IN DIRECTION MAKE A 2' COIL OF WIRE. AT ALL VALVE BOXES COIL WIRE AROUND A 3/4" PIECE OF PVC PIPE TO MAKE A COIL USING 30 LINEAR INCHES OF WIRE. MAKE ELECTRICAL CONNECTIONS WITH 3M-DBY.DBR CONNECTORS.

NUMBER ALL WIRES USING AN ELECTRICAL BOOK OF NUMBERS ACCORDING TO THE PLANS. NUMBER WIRES IN ALL VALVE BOXES, JUNCTION BOXES AND AT THE CONTROLLER.

WIRE SIZED, NUMBERED AND COLORED AS FOLLOWS:

- #14 WHITE FOR COMMON **#14 SPARE BLACK COMMON**
- #14 RED FOR HOT WIRES
- #14 SPARE YELLOW HOT WIRE

CONTROLLER GROUNDING

CONTRACTOR TO UTILIZE 4"X8'X5/8" COPPER GROUNDING PLATES, 5/8"X10' COPPER CLAD GROUNDING RODS. 'ONE STRIKE' CAD WELLS AT ALL CONNECTION POINTS. #6 BARE COPPER WIRE. AND EARTH CONTACT MATERIAL. INSTALL THESE AND OTHER REQUIRED COMPONENTS AS OUTLINED IN THE DETAIL. CONTRACTOR TO VERIFY THAT THE EARTH TO GROUND RESISTANCE DOES NOT EXCEED 10 OHMS. CONTRACTOR SHALL PROVIDE A WRITTEN CERTIFICATION ON A LICENSED ELECTRICAL CONTRACTORS LETTER HEAD SHOWING THE DATE OF THE TEST, CONTROLLER LOCATION, AND TEST RESULTS. EACH CONTROLLER SHALL BE SO GROUNDED AND TESTED.

LAY OUT IRRIGATION SYSTEM MAINLINES AND LATERAL LINES. MAKE THE NECESSARY ADJUSTMENTS AS REQUIRED TO TAKE INTO ACCOUNT ALL SITE OBSTRUCTIONS AND LIMITATIONS PRIOR TO EXCAVATING TRENCHES.

STAKE ALL SPRINKLER HEAD LOCATIONS. ADJUST LOCATION AND MAKE THE NECESSARY MODIFICATIONS TO NOZZLE TYPES, ETC. REQUIRED TO INSURE 100% HEAD TO HEAD COVERAGE. REFER TO THE EDGE OF PAVEMENT DETAIL ON THE IRRIGATION DETAIL SHEET.

SPRAY HEADS SHALL BE INSTALLED 4" FROM SIDEWALKS OR CURBED ROADWAYS AND 12" FROM UNCURBED ROADWAYS AND BUILDING FOUNDATIONS. ROTORS SHALL BE INSTALLED 4" FROM SIDEWALKS OR CURBED ROADWAYS, 12" FROM BUILDING FOUNDATIONS, AND 36" FROM UNCURBED ROADWAYS.

SHRUB HEADS SHALL BE INSTALLED ON 3/4" SCH 40 PVC RISERS. THE RISERS SHALL BE SET AT A MINIMUM OF 18" OFF SIDEWALKS, ROADWAY CURBING, BUILDING FOUNDATIONS, AND/OR ANY OTHER HARDSCAPED AREAS. SHRUB HEADS SHALL BE INSTALLED TO A STANDARD HEIGHT OF 4" BELOW MAINTAINED HEIGHT OF PLANTS AND SHALL BE INSTALLED WITHIN PLANTED MASSES TO BE LESS VISIBLE AND OFFER PROTECTION. PAINT ALL SHRUB RISERS WITH FLAT BLACK OR FOREST GREEN PAINT, UNLESS IRRIGATION SYSTEM WILL BE INSTALLED FROM A REUSE WATER SYSTEM WITH PURPLE PVC RISERS.

LOCATE VALVES PRIOR TO EXCAVATION. INSURE THAT THEIR LOCATION PROVIDES FOR EASY ACCESS AND THAT THERE IS NO INTERFERENCE WITH PHYSICAL STRUCTURES, PLANTS, TREES, POLES, ETC. VALVE BOXES MUST BE PLACED A MINIMUM OF 12" AND A MAXIMUM OF 15" FROM THE EDGE OF PAVEMENT, CURBS, ETC., AND THE TOP OF THE BOX MUST BE 2" ABOVE FINISH GRADE. NO VALVE BOXES SHALL BE INSTALLED IN TURF AREAS WITHOUT APPROVAL BY THE IRRIGATION DESIGNER; ONLY IN SHRUB BEDS. NEVER INSTALL VALVE BOXES IN SPORT FIELD AREAS.

SEQUENCE ALL VALVES SO THAT THE FARTHEST VALVE FROM THE P.O.C. OPERATES FIRST AND THE CLOSEST TO THE P.O.C. OPERATES LAST. THE CLOSEST VALVE TO THE P.O.C. SHOULD BE THE LAST VALVE IN THE PROGRAMMED SEQUENCE.

ADJUST THE FLOW CONTROL ON EACH RCV TO ENSURE SHUT OFF IN 10 SECONDS AFTER DEACTIVATION BY THE IRRIGATION CONTROLLER.

USING 3" HIGH NUMBER STENCILS, PAINT THE VALVE NUMBER IN WHITE ON THE LID OF EACH VALVE

EQUIPMENT

BUBBLERS SHALL BE INSTALLED USING SCH 80 NIPPLES AND SHALL BE PLACED AT THE BASE OF TREES FOR LOW LEVEL WATERING.

ALL POP-UP HEADS AND SHRUB RISERS SHALL BE PRESSURE COMPENSATING. ALL POP-UP HEADS SHALL BE MOUNTED ON FLEX-TYPE SWING JOINTS.

ALL SPRINKLER EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS, AND IN ACCORDANCE WITH LOCAL AND STATE

TRENCHING

EXCAVATE STRAIGHT AND VERTICAL TRENCHES WITH SMOOTH, FLAT OR SLOPING BOTTOMS. TRENCH WIDTH AND DEPTH SHOULD BE SUFFICIENT TO ALLOW FOR THE PROPER VERTICAL AND HORIZONTAL SEPARATION BETWEEN PIPING AS SHOWN IN THE PIPE INSTALLATION DETAIL ON THE DETAIL SHEET.

PROTECT EXISTING LANDSCAPED AREAS. REMOVE AND REPLANT ANY DAMAGED PLANT MATERIAL UPON JOB COMPLETION. THE REPLACEMENT MATERIAL SHALL BE THE SAME GENUS, SPECIES, AND SIZE OF THE MATERIAL IT IS REPLACING. THE FINAL DETERMINATION AS TO WHAT NEEDS TO BE REPLACED AND THE ACCEPTABILITY OF THE REPLACEMENT MATERIAL SHALL BE SOLELY DETERMINED BY THE OWNER OR OWNER'S REPRESENTATIVE.

INSTALLATION

CUT ALL PIPE SQUARE AND DEBURR. CLEAN PIPE AND FITTINGS OF FOREIGN MATERIAL, THEN APPLY A SMALL AMOUNT OF PRIMER WHILE ENSURING THAT ANY EXCESS IS WIPED OFF IMMEDIATELY. PRIMER SHOULD NOT PUDDLE OR DRIP FROM PIPE OR FITTINGS. NEXT APPLY A THIN COAT OF PVC CEMENT. FIRST APPLY A THIN LAYER TO THE PIPE, THEN A THIN LAYER INSIDE THE FITTING, AND FINALLY ANOTHER VERY THIN LAYER ON THE PIPE. INSERT THE PIPE INTO THE FITTING. INSURE THAT THE PIPE IS INSERTED TO THE BOTTOM OF THE FITTING, THEN TURN THE PIPE A 1/4 TURN AND HOLD FOR 10 SECONDS. MAKE SURE THAT THE PIPE DOESN'T RECEDE FROM THE FITTING. IF THE PIPE ISN'T AT THE BOTTOM OF THE FITTING UPON COMPLETION, THE GLUE JOINT IS UNACCEPTABLE AND MUST BE DISCARDED.

PIPES MUST CURE A MINIMUM OF 30 MINUTES PRIOR TO HANDLING AND PLACING INTO TRENCHES. A LONGER CURING TIME MAY BE REQUIRED; REFER TO THE MANUFACTURER'S SPECIFICATIONS. THE PIPE MUST CURE A MINIMUM OF 24 HOURS PRIOR TO FILLING WITH WATER.

BACKFILLING

THE BACKFILL 6" BELOW AND 6" ABOVE ALL PIPING SHALL BE CLEAN SAND. ALL OTHER TRCNCH BACKFILL CAN BE NATIVE MATERIAL BUT SHALL NOT CONTAIN ANYTHING LARGER THAN 2" IN DIAMETER.

MAIN LINE PIPE DEPTH MEASURED TO THE TOP OF PIPE SHALL BE 24" MINIMUM, 36" MINIMUM AT VEHICULAR CROSSINGS.

LATERAL LINE DEPTHS MEASURED TO TOP OF PIPE SHALL BE 18" MINIMUM, 30" MINIMUM AT VEHICULAR CROSSINGS.

CONTRACTOR SHALL BACKFILL ALL PIPING, BOTH MAINLINE AND LATERALS, PRIOR TO PERFORMING ANY PRESSURE TESTS. THE PIPE SHALL BE BACKFILLED WITH THE EXCEPTION OF 2' ON EACH SIDE OF EVERY JOINT (BELL FITTINGS, 90'S, TEES, 45'S, ETC.). THESE JOINTS SHALL NOT BE BACKFILLED UNTIL ALL PIPING HAS SATISFACTORILY PASSED ITS APPROPRIATE PRESSURE TEST AS OUTLINED BELOW.

PRIOR TO THE PLACEMENT OF HEADS, FLUSH ALL LINES FOR A MINIMUM OF 10 MINUTES OR UNTIL LINES ARE COMPLETELY CLEAN OF DEBRIS, WHICHEVER IS LONGER.

USE SCREENS IN HEADS AND ADJUST HEADS FOR PROPER COVERAGE AVOIDING EXCESS WATER ON WALLS, WALKS AND PAVING.

REMOVE ALL REMOTE CONTROL VALVES AND CAP USING A THREADED CAP. FILL MAINLINE WITH WATER AND PRESSURIZE THE SYSTEM TO 100 PSI. MONITOR THE SYSTEM PRESSURE AT TWO GAUGE LOCATIONS: THE GAUGE LOCATIONS MUST BE AT OPPOSITE ENDS OF THE MAINLINE. WITH THE SAME RESPECTIVE PRESSURES, MONITOR THE GAUGES FOR TWO HOURS. THERE CAN BE NO LOSS IN PRESSURE AT EITHER GAUGE FOR SOLVENT-WELDED PIPE. GASKETED PIPING SHALL LOSE NO MORE WATER THAN ALLOWED PER THE FLORIDA STATE BUILDING CODE, VOLUME II PLUMBING, PART VI, APPENDIX 'F'. REFER TO THIS SECTION FOR THE FORMULA TO BE USED TO CALCULATE THE MAXIMUM ALLOWABLE WATER LOSS DURING THE TESTING TIME. IF THESE PARAMETERS ARE EXCEEDED, LOCATE THE PROBLEM: REPAIR IT: WAIT 24 HOURS AND RETRY THE TEST. THIS PROCEDURE MUST BE FOLLOWED UNTIL THE MAINLINE PASSES THE

THE LATERAL LINES MUST BE FILLED AND VISUALLY CHECKED FOR LEAKS. ANY LEAKS DETECTED MUST BE REPAIRED. NO PRESSURE TEST OF THE LATERAL LINES IS REQUIRED.

ONCE THE MAINLINE AND LATERAL LINES HAVE PASSED THEIR RESPECTIVE TESTS AND THE SYSTEM IS COMPLETELY OPERATIONAL, A COVERAGE TEST AND DEMONSTRATION OF THE SYSTEM IS REQUIRED. THE IRRIGATION CONTRACTOR MUST DEMONSTRATE TO THE OWNER OR HIS/HER REPRESENTATIVE THAT PROPER COVERAGE IS OBTAINED AND THAT THE SYSTEM WORKS AUTOMATICALLY FROM THE CONTROLLER. THIS DEMONSTRATION REQUIRES THAT EACH ZONE BE TURNED ON IN THE PROPER SEQUENCE AS SHOWN ON THE PLANS FROM THE CONTROLLER. EACH ZONE WILL BE INSPECTED FOR PROPER COVERAGE AND FUNCTION. THE DETERMINATION OF PROPER COVERAGE AND FUNCTION WILL BE SOLEY DETERMINED BY THE OWNER OR OWNER'S REPRESENTATIVE.

OPERATIONAL TESTING — UPON COMPLETION OF BACKFILLING, FINISH GRADING AND CONTOURING, TEST THE ENTIRE SYSTEM FOR PROPER OPERATION, INCLUDING ELECTRICALLY ACTUATING THE REMOTE CONTROL VALVES. RUN EACH ZONE UNTIL WATER BEGINS TO PUDDLE OR RUN OFF. THIS WILL ALLOW DETERMINATION OF THE NUMBER OF IRRIGATION START TIMES NECESSARY TO MEET THE WEEKLY EVAPOTRANSPIRATION REQUIREMENTS OF THE PLANTING MATERIAL IN EACH ZONE. IN SANDY SOILS NO PUDDLING WILL OCCUR. IN THESE CASES, CALCULATE THE REQUIRED RUN TIMES.

<u>SUBMITTALS</u>

THE CONTRACTOR MUST SUBMIT FOR APPROVAL. PRIOR TO INSTALLATION. COPIES OF THE MANUFACTURER'S CUT SHEETS/SPECIFICATIONS FOR ALL COMPONENTS TO BE USED IN THE IRRIGATION SYSTEM.

AFTER PROJECT COMPLETION. AND AS A CONDITION OF FINAL ACCEPTANCE. THE IRRIGATION CONTRACTOR SHALL PROVIDE THE OWNER WITH A HIGH QUALITY, ACCURATE, AND LEGIBLE SET OF AS-BUILT DRAWINGS. THE AS-BUILTS MUST IDENTIFY ALL REMOTE CONTROL VALVES, GATE VALVES, BALL VALVES, SPLICE BOXES, CONTROLLERS, MAINLINE, SLEEVING, AND LOW VOLTAGE WIRING. EACH OF THESE ITEMS IS SHALL LOCATED USING A SUBMETER GPS SYSTEM. THE IRRIGATION CONTRACTOR MUST ALSO PROVIDE ACCURATE, INFORMATIVE, AND EASY TO FOLLOW AND UNDERSTAND OPERATION AND MAINTENANCE MANUALS FOR ALL COMPONENTS OF THE IRRIGATION SYSTEM.

CONTROLLER CHARTS - UPON COMPLETION OF "AS-BUILTS", CONTRACTOR SHALL PREPARE CONTROLLER CHARTS AT ONE PER CONTROLLER. INDICATE ON EACH CHART THE AREA CONTROLLED BY A REMOTE CONTROL VALVE (USING A DIFFERENT COLOR FOR EACH ZONE). THIS CHART SHALL BE REDUCED TO A SIZE THAT WILL FIT INSIDE OF THE CONTROLLER DOOR. THE RÉDUCTION SHALL BE HERMETICALLY SEALED INSIDE TWO 2ML PIECES OF CLEAR PLASTIC.

CONTRACTOR SHALL FURNISH EXTRA MATERIALS DESCRIBED BELOW THAT MATCH PRODUCTS INSTALLED AND THAT ARE PACKAGED WITH PROTECTIVE COVERING FOR STORAGE AND IDENTIFIED WITH LABELS DESCRIBING CONTENTS. INCLUDE TOOLS TO SERVICE THESE PRODUCTS. 1. SPRINKLER UNITS: FIVE OF EACH UNIT FOR EACH TYPE AND SIZE INSTALLED, BUT NO FEWER

THAN TWO UNITS. 2. EMITTER UNITS: FIVE OF EACH UNIT FOR EACH TYPE AND SIZE INSTALLED, BUT NO FEWER THAN TWO UNITS.

3. DRIP TUBE UNITS: FIVE OF EACH UNIT FOR EACH TYPE AND SIZE INSTALLED, BUT NO FEWER THAN TWO UNITS.

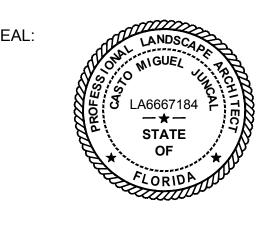
FINAL ACCEPTANCE

FINAL ACCEPTANCE OF THE IRRIGATION SYSTEM WILL BE GIVEN AFTER THE FOLLOWING DOCUMENTS AND CONDITIONS HAVE BEEN COMPLETED AND APPROVED. FINAL PAYMENT WILL NOT BE RELEASED UNTIL THESE CONDITIONS ARE SATISFIED.

- 1. FINAL WALK-THRU AND CORRECTION OF ALL PUNCH LIST ITEMS.
- 2. COMPLETION AND ACCEPTANCE OF 'AS-BUILT' DRAWINGS.
- 3. ACCEPTANCE OF REQUIRED CONTROLLER CHARTS AND PLACEMENT INSIDE OF CONTROLLERS. 4. TURNOVER OF ALL REQUIRED PARTS AND TOOLS AS OUTLINED IN THE PROJECT SPECIFICATIONS.

GUARANTEE: THE IRRIGATION SYSTEMS SHALL BE GUARANTEED FOR A MINIMUM OF ONE CALENDAR YEAR FROM THE TIME OF FINAL ACCEPTANCE.

KEY PLAN (NOT TO SCALE):



APPROVED: CASTO MIGUEL JUNCAL, PLA

IR1.5

ML PROJECT No. 21-00045

ADDRESS: OFFICE OF CAPITAL IMPROVEMENT PROJECTS 1701 MERIDIAN AVENUE, MIAMI BEACH, FL.33139

CHASE AVENUE AND W 34TH STREET PATH

CITY OF MIAMI BEACH, FL



CMJ OF RECORD: ORAWN BY: AP HECKER: CMJ CASTO MIGUEL JUNCAL CALE: AS SHOWN

ANDSCAPE ARCHITECT NO.6667184

NO. DATE

FLA. REGISTRATION NO. LA6667184 Drawing Title: IRRIGATION NOTES ilename: 21-00045_IRR.dwg APP'D. BY REVISION Sheet: